



TAMU Project

**Energy Consumption Data Quality Assurance/Quality
Control Assessment Report for the
Month of February 2016**

Prepared for

**Utility & Energy Services
Division of Administration
Texas A&M University**

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Acknowledgements

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Executive Summary

This report analyzes the energy use data collected from 562 meters in 188 buildings and complexes (approximately 17,100,000 GSF) on the campus of Texas A&M University in College Station, Texas. The report consists of five sections: 1) The summary of the monthly energy consumption per meter ID, 2) The quality control and assurance analysis of incorrect or incomplete energy use patterns, 3) Energy consumption time series plots, 4) Energy Balance plots, and 5) Energy Balance plots with filled-in consumption data. Section one contains the summary of monthly energy consumption for each of the TAMU buildings. Section two includes the reviews on each of those building energy use patterns that presented problems in the metered data. Section three and four are a collection of the plots generated for the energy use analysis, as reference to indicate and validate the quality of the metered energy data. The Section five includes the energy balance plots with filled-in energy data.

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I. Summary of Monthly Consumption

Table I-1 February 2016 Monthly Consumption for TAMU Buildings

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-----------|---|----------------------------|---------|------|------------------------|-------|----------|
| 0270 | Emerging Technologies Building | 305,316 | 007469 | ELE | 187,594 | kWh | |
| 0270 | Emerging Technologies Building | 305,316 | 007470 | ELE | 50,548 | kWh | |
| 0270 | Emerging Technologies Building | 305,316 | 007471 | CHW | 707,476 | mBtu | |
| 0270 | Emerging Technologies Building | 305,316 | 007475 | HHW | 555,380 | mBtu | |
| 0275 | Liberal Arts and Arts & Humanities Building | 107,500 | 007715 | ELE | 61,446 | kWh | |
| 0275 | Liberal Arts and Arts & Humanities Building | 107,500 | 007716 | CHW | 328,473 | mBtu | |
| 0275 | Liberal Arts and Arts & Humanities Building | 107,500 | 007717 | HHW | 147,633 | mBtu | |
| 0290 | Wells Residence Hall | 67,283 | 006870 | ELE | 39,534 | kWh | * |
| 0290 | Wells Residence Hall | 67,283 | 001984 | CHW | 485,866 | mBtu | |
| 0290 | Wells Residence Hall | 67,283 | 001988 | HHW | 368,262 | mBtu | |
| 0291 | Rudder Residence Hall | 67,283 | 000351 | ELE | 51,712 | kWh | |
| 0291 | Rudder Residence Hall | 67,283 | 002132 | CHW | 615,739 | mBtu | (2) |
| 0291 | Rudder Residence Hall | 67,283 | 002136 | HHW | 450,990 | mBtu | (2) |
| 0292 | Epwright Residence Hall | 67,283 | 000002 | ELE | 45,981 | kWh | |
| 0292 | Epwright Residence Hall | 67,283 | 002262 | CHW | 221,157 | mBtu | |
| 0292 | Epwright Residence Hall | 67,283 | 002266 | HHW | 183,802 | mBtu | |
| 0293 | Appelt Residence Hall | 82,767 | 000003 | ELE | 54,006 | kWh | |
| 0293 | Appelt Residence Hall | 82,767 | 002062 | CHW | 515,332 | mBtu | (2) |
| 0293 | Appelt Residence Hall | 82,767 | 002066 | HHW | 307,616 | mBtu | (2) |
| 0294 | Lechner Residence Hall | 59,541 | 000004 | ELE | 40,836 | kWh | (2) |
| 0294 | Lechner Residence Hall | 59,541 | 002285 | CHW | 479,803 | mBtu | (2) |
| 0294 | Lechner Residence Hall | 59,541 | 002289 | HHW | 424,208 | mBtu | (2) |
| 0296-0297 | Mitchell Inst. For Fundamental Phys & Astronomy | 189,617 | 006536 | ELE | 115,212 | kWh | |
| 0296-0297 | Mitchell Inst. For Fundamental Phys & Astronomy | 189,617 | 006537 | ELE | 113,044 | kWh | |
| 0296-0297 | Mitchell Inst. For Fundamental Phys & Astronomy | 189,617 | 006534 | CHW | 407,608 | mBtu | * |
| 0296-0297 | Mitchell Inst. For Fundamental Phys & Astronomy | 189,617 | 006535 | HHW | 235,354 | mBtu | * |
| 0353 | Bright Aerospace Building | 148,837 | 001569 | ELE | 151,829 | kWh | |
| 0353 | Bright Aerospace Building | 148,837 | 002746 | CHW | 892,022 | mBtu | (2) |
| 0353 | Bright Aerospace Building | 148,837 | 002757 | HHW | 104,785 | mBtu | (2) |
| 0358 | Davis Football Player Development Center | 20,026 | 007699 | ELE | 25,386 | kWh | |
| 0358 | Davis Football Player Development Center | 20,026 | 007701 | CHW | 68,429 | mBtu | |
| 0358 | Davis Football Player Development Center | 20,026 | 007702 | HHW | 9,609 | mBtu | |
| 0361 | Bright Football Complex | 124,971 | 008461 | ELE | 209,953 | kWh | * |
| 0361 | Bright Football Complex | 124,971 | 002547 | CHW | 667,901 | mBtu | |
| 0361 | Bright Football Complex | 124,971 | 002551 | HHW | 282,076 | mBtu | |
| 0367 | Kyle Field | 489,000 | 000336 | ELE | 130,368 | kWh | |
| 0367 | Kyle Field | 489,000 | 008861 | ELE | 85,396 | kWh | |
| 0367 | Kyle Field | 489,000 | 008862 | ELE | 95,886 | kWh | |
| 0367 | Kyle Field | 489,000 | 008863 | ELE | 155,935 | kWh | |
| 0367 | Kyle Field | 489,000 | 008864 | ELE | 191,228 | kWh | |
| 0367 | Kyle Field | 489,000 | 008865 | ELE | 58,731 | kWh | |
| 0367 | Kyle Field | 489,000 | 008866 | ELE | 201,843 | kWh | |
| 0367 | Kyle Field | 489,000 | 008867 | ELE | 215,128 | kWh | |
| 0367 | Kyle Field | 489,000 | 008868 | ELE | 87,406 | kWh | |
| 0367 | Kyle Field | 489,000 | 008852 | CHW | 1,220,959 | mBtu | * |
| 0367 | Kyle Field | 489,000 | 008026 | CHW | 985,274 | mBtu | |
| 0367 | Kyle Field | 489,000 | 008856 | HHW | 305,823 | mBtu | * |
| 0367 | Kyle Field | 489,000 | 008027 | HHW | 895,659 | mBtu | |
| 0376 | Chemistry Building Addition | 115,797 | 006229 | ELE | 171,796 | kWh | |
| 0376 | Chemistry Building Addition | 115,797 | 006230 | ELE | 116,274 | kWh | |
| 0376 | Chemistry Building Addition | 115,797 | 007115 | CHW | 1,300,269 | mBtu | |
| 0376 | Chemistry Building Addition | 115,797 | 007119 | HHW | 1,661,036 | mBtu | |
| 0383 | Koldus Building | 110,272 | 001488 | ELE | 147,157 | kWh | |
| 0383 | Koldus Building | 110,272 | 002863 | CHW | 278,668 | mBtu | |
| 0383 | Koldus Building | 110,272 | 002874 | HHW | 88,621 | mBtu | |
| 0384 | Sanders Corps of Cadets Center | 19,363 | 001554 | ELE | 23,906 | kWh | |
| 0384 | Sanders Corps of Cadets Center | 19,363 | 002583 | CHW | 130,100 | mBtu | |
| 0384 | Sanders Corps of Cadets Center | 19,363 | 002587 | HHW | 106,775 | mBtu | |
| 0325-0385 | CE TTI Office & Lab Building | 157,844 | 009122 | ELE | NA | kWh | * |
| 0325-0385 | CE TTI Office & Lab Building | 157,844 | 009123 | CHW | 643,935 | mBtu | |
| 0325-0385 | CE TTI Office & Lab Building | 157,844 | 009124 | HHW | NA | mBtu | * |
| 0385-A | CE TTI Office & Lab Building - Pi R Square | 9,393 | 004240 | CHW | 23,087 | mBtu | |
| 0385-A | CE TTI Office & Lab Building - Pi R Square | 9,393 | 004245 | HHW | 20,857 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|----------------|---|----------------------------|---------|------|------------------------|-------|----------|
| 0386 | Jack E. Brown Chemical Engineering Building | 205,000 | 001428 | ELE | 156,811 | kWh | * |
| 0386 | Jack E. Brown Chemical Engineering Building | 205,000 | 001429 | ELE | 333,162 | kWh | * |
| 0386 | Jack E. Brown Chemical Engineering Building | 205,000 | 002250 | CHW | 1,783,872 | mBtu | * |
| 0386 | Jack E. Brown Chemical Engineering Building | 205,000 | 006871 | CHW | 100,695 | mBtu | * |
| 0386 | Jack E. Brown Chemical Engineering Building | 205,000 | 002254 | HHW | 1,067,880 | mBtu | * |
| 0387 | Richardson Petroleum Engineering Building | 113,700 | 005870 | ELE | 83,626 | kWh | |
| 0387 | Richardson Petroleum Engineering Building | 113,700 | 005872 | ELE | 103,871 | kWh | |
| 0387 | Richardson Petroleum Engineering Building | 113,700 | 005805 | CHW | 484,696 | mBtu | |
| 0387 | Richardson Petroleum Engineering Building | 113,700 | 005809 | HHW | 281,311 | mBtu | |
| 0391-0392 | James J. Cain '51 and Mechanical Engineering Office Building | 173,481 | 001573 | ELE | 191,171 | kWh | |
| 0391-0392 | James J. Cain '51 and Mechanical Engineering Office Building | 173,481 | 002906 | CHW | 873,386 | mBtu | |
| 0391-0392 | James J. Cain '51 and Mechanical Engineering Office Building | 173,481 | 002910 | HHW | 370,764 | mBtu | |
| 0394 | Underwood Residence Hall | 81,730 | 000014 | ELE | 40,530 | kWh | |
| 0394 | Underwood Residence Hall | 81,730 | 002117 | CHW | 536,146 | mBtu | (2) |
| 0394 | Underwood Residence Hall | 81,730 | 002121 | HHW | 564,972 | mBtu | (2) |
| 0398 | Langford Architecture Center Building A | 116,619 | 003806 | ELE | 116,604 | kWh | |
| 0398 | Langford Architecture Center Building A | 116,619 | 003951 | CHW | 193,319 | mBtu | |
| 0398 | Langford Architecture Center Building A | 116,619 | 003955 | HHW | 89,104 | mBtu | |
| 0405-0407-1402 | Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center | 91,310 | 007721 | ELE | 66,741 | kWh | |
| 0407-1402 | Harrell Hall - Dorm 8 and Buzbee LLC | 54,443 | 007722 | CHW | 233,830 | mBtu | |
| 0407-1402 | Harrell Hall - Dorm 8 and Buzbee LLC | 54,443 | 007723 | HHW | 135,131 | mBtu | |
| 0405 | Lacy Hall - Dorm 6 | 36,867 | 007922 | ELE | 21,849 | kWh | |
| 0405 | Lacy Hall - Dorm 6 | 36,867 | 007918 | CHW | 155,440 | mBtu | #, (1) |
| 0405 | Lacy Hall - Dorm 6 | 36,867 | 007919 | HHW | 120,820 | mBtu | |
| 0407 | Harrell Hall - Dorm 8 | 36,943 | 007729 | ELE | 27,764 | kWh | |
| 1402 | Buzbee Leadership Learning Center | 17,500 | 007725 | CHW | 70,419 | mBtu | |
| 1402 | Buzbee Leadership Learning Center | 17,500 | 007726 | HHW | 8,856 | mBtu | |
| 0406-1403 | Leonard Hall - Dorm 7 and Ash LLC | 54,179 | 007981 | ELE | 58,462 | kWh | |
| 0406-1403 | Leonard Hall - Dorm 7 and Ash LLC | 54,179 | 007982 | CHW | 221,049 | mBtu | |
| 0406-1403 | Leonard Hall - Dorm 7 and Ash LLC | 54,179 | 007983 | HHW | 149,453 | mBtu | |
| 0406 | Leonard Hall - Dorm 7 | 36,893 | 008011 | ELE | 11,945 | kWh | |
| 0406 | Leonard Hall - Dorm 7 | 36,893 | 008012 | ELE | 15,326 | kWh | |
| 1403 | H. Grady Ash, Jr. '58 Leadership Learning Center | 17,286 | 008005 | CHW | 57,719 | mBtu | |
| 1403 | H. Grady Ash, Jr. '58 Leadership Learning Center | 17,286 | 008006 | HHW | 38,916 | mBtu | |
| 0408 | Whitely Hall - Dorm 9 | 36,893 | 000024 | ELE | 26,567 | kWh | |
| 0408 | Whitely Hall - Dorm 9 | 36,893 | 002079 | CHW | 286,315 | mBtu | |
| 0408 | Whitely Hall - Dorm 9 | 36,893 | 002083 | HHW | 218,329 | mBtu | |
| 0409 | White Hall - Dorm 10 | 36,893 | 000025 | ELE | 25,118 | kWh | |
| 0409 | White Hall - Dorm 10 | 36,893 | 002094 | CHW | 264,062 | mBtu | |
| 0409 | White Hall - Dorm 10 | 36,893 | 002098 | HHW | 189,514 | mBtu | |
| 0410 | Harrington Hall - Dorm 11 | 36,893 | 000327 | ELE | 19,811 | kWh | |
| 0410 | Harrington Hall - Dorm 11 | 36,893 | 002349 | CHW | 231,051 | mBtu | |
| 0410 | Harrington Hall - Dorm 11 | 36,893 | 002353 | HHW | 182,063 | mBtu | |
| 0411 | Utay Hall - Dorm 12 | 36,943 | 000026 | ELE | 27,378 | kWh | |
| 0411 | Utay Hall - Dorm 12 | 36,943 | 002102 | CHW | 192,245 | mBtu | |
| 0411 | Utay Hall - Dorm 12 | 36,943 | 002106 | HHW | 150,927 | mBtu | |
| 0412 | Moses Residence Hall | 40,828 | 000027 | ELE | 31,613 | kWh | |
| 0412 | Moses Residence Hall | 40,828 | 002384 | CHW | 349,913 | mBtu | |
| 0412 | Moses Residence Hall | 40,828 | 002395 | HHW | 248,082 | mBtu | |
| 0415 | Davis-Gary Residence Hall | 40,828 | 000030 | ELE | 29,142 | kWh | |
| 0415 | Davis-Gary Residence Hall | 40,828 | 002532 | CHW | 345,968 | mBtu | |
| 0415 | Davis-Gary Residence Hall | 40,828 | 002543 | HHW | 287,841 | mBtu | |
| 0419 | Legett Residence Hall | 45,134 | 000031 | ELE | 24,067 | kWh | |
| 0419 | Legett Residence Hall | 45,134 | 002218 | CHW | 183,520 | mBtu | |
| 0419 | Legett Residence Hall | 45,134 | 002222 | HHW | 168,233 | mBtu | |
| 0420 | Milner Hall | 48,268 | 009144 | ELE | 21,472 | kWh | * |
| 0420 | Milner Hall | 48,268 | 009145 | CHW | 185,335 | mBtu | #, (1) |
| 0420 | Milner Hall | 48,268 | 009146 | HHW | 189,698 | mBtu | |
| 0422 | Walton Residence Hall | 51,494 | 000378 | ELE | 47,944 | kWh | |
| 0422 | Walton Residence Hall | 51,494 | 002364 | HHW | 99,407 | mBtu | |
| 0424 | Hotard Hall | 18,500 | 000032 | ELE | 11,961 | kWh | |
| 0424 | Hotard Hall | 18,500 | 002657 | CHW | 52,160 | mBtu | |
| 0424 | Hotard Hall | 18,500 | 002668 | HHW | 60,069 | mBtu | |
| 0425 | Henderson Hall | 22,185 | 001553 | ELE | 14,834 | kWh | |
| 0425 | Henderson Hall | 22,185 | 002607 | CHW | 116,923 | mBtu | |
| 0425 | Henderson Hall | 22,185 | 002611 | HHW | 104,583 | mBtu | |
| 0426-0427-0428 | FHK Complex | 154,349 | 000331 | ELE | 101,698 | kWh | |
| 0426-0427-0428 | FHK Complex | 154,349 | 002848 | CHW | 585,754 | mBtu | |
| 0426-0427-0428 | FHK Complex | 154,349 | 002859 | HHW | 670,792 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-------------------|--|----------------------------|---------|------|------------------------|-------|----------|
| 0430 | Schumacher Residence Hall | 38,957 | 000034 | ELE | 35,285 | kWh | |
| 0430 | Schumacher Residence Hall | 38,957 | 002015 | CHW | 148,502 | mBtu | |
| 0430 | Schumacher Residence Hall | 38,957 | 002030 | HHW | 151,759 | mBtu | |
| 0359 | Architecture Building B | 28,545 | 005518 | ELE | 19,909 | kWh | |
| 0432 | Architecture Building C | 73,020 | 005584 | ELE | 76,747 | kWh | |
| 0359-0432 | Architecture Building B&C | 101,565 | 006419 | CHW | 428,590 | mBtu | |
| 0359-0432 | Architecture Building B&C | 101,565 | 006423 | HHW | 301,360 | mBtu | |
| 0434 | Luedecke Building (Cyclotron) | 80,646 | 005555 | ELE | 95,609 | kWh | |
| 0434 | Luedecke Building (Cyclotron) | 80,646 | 005558 | ELE | 837,862 | kWh | |
| 0434 | Luedecke Building (Cyclotron) | 80,646 | 006664 | CHW | 1,185,892 | mBtu | |
| 0434 | Luedecke Building (Cyclotron) | 80,646 | 006668 | HHW | 166,609 | mBtu | |
| 0435 | Harrington Education Center Office Tower | 130,844 | 001546 | ELE | 103,340 | kWh | |
| 0435 | Harrington Education Center Office Tower | 130,844 | 002792 | CHW | 464,471 | mBtu | |
| 0435 | Harrington Education Center Office Tower | 130,844 | 002796 | HHW | 403,715 | mBtu | |
| 0436 | Reed-McDonald Building | 77,435 | 006868 | ELE | 88,759 | kWh | |
| 0436 | Reed-McDonald Building | 77,435 | 002419 | CHW | 413,154 | mBtu | |
| 0436 | Reed-McDonald Building | 77,435 | 002423 | HHW | 392,983 | mBtu | |
| 0438 | Harrington Education Center Classroom Building | 61,860 | 003630 | ELE | 37,694 | kWh | |
| 0438 | Harrington Education Center Classroom Building | 61,860 | 002784 | CHW | 72,719 | mBtu | |
| 0438 | Harrington Education Center Classroom Building | 61,860 | 002788 | HHW | 11,633 | mBtu | |
| 0433-0440-0441-04 | Mosher Commons Krueger Dunn Aston | 577,584 | 009099 | ELE | 414,844 | kWh | |
| 0433 | Mosher Residence Hall | 155,430 | 009083 | ELE | 104,484 | kWh | (2) |
| 0433 | Mosher Residence Hall | 155,430 | 002485 | CHW | 1,476,912 | mBtu | |
| 0433 | Mosher Residence Hall | 155,430 | 002489 | HHW | 788,482 | mBtu | |
| 0441 | Krueger Residence Hall | 112,133 | 009091 | ELE | 119,112 | kWh | |
| 0441 | Krueger Residence Hall | 112,133 | 002504 | CHW | 829,647 | mBtu | #, (1) |
| 0441 | Krueger Residence Hall | 112,133 | 002500 | HHW | 534,575 | mBtu | |
| 0442 | Dunn Residence Hall | 112,133 | 009095 | ELE | 120,061 | kWh | |
| 0442 | Dunn Residence Hall | 112,133 | 002519 | CHW | 624,947 | mBtu | |
| 0442 | Dunn Residence Hall | 112,133 | 002515 | HHW | 479,659 | mBtu | #, (1) |
| 0447 | Aston Residence Hall | 113,388 | 009087 | ELE | 70,606 | kWh | |
| 0447 | Aston Residence Hall | 113,388 | 002474 | CHW | 691,790 | mBtu | |
| 0447 | Aston Residence Hall | 113,388 | 002470 | HHW | 631,501 | mBtu | #, (1) |
| 0443 | Oceanography & Meteorology Building | 180,316 | 005322 | ELE | 165,009 | kWh | |
| 0443 | Oceanography & Meteorology Building | 180,316 | 005323 | ELE | 58,050 | kWh | |
| 0443 | Oceanography & Meteorology Building | 180,316 | 006388 | CHW | 571,733 | mBtu | |
| 0443 | Oceanography & Meteorology Building | 180,316 | 006392 | HHW | 672,922 | mBtu | |
| 0444 | Peterson Building | 84,831 | 004714 | ELE | 146,065 | kWh | |
| 0444 | Peterson Building | 84,831 | 002922 | CHW | 787,758 | mBtu | |
| 0444 | Peterson Building | 84,831 | 006435 | HHW | 444,570 | mBtu | |
| 0445-0517 | Teague Research Center and DPC Annex | 89,735 | 003948 | ELE | 28,355 | kWh | |
| 0445-0517 | Teague Research Center and DPC Annex | 89,735 | 004719 | ELE | 48,137 | kWh | |
| 0445 | Teague Research Center | 63,515 | 006411 | CHW | 122,388 | mBtu | |
| 0445 | Teague Research Center | 63,515 | 006415 | HHW | 44,953 | mBtu | #, (1) |
| 0517 | DPC Annex | 26,220 | 006563 | CHW | 209,445 | mBtu | |
| 0517 | DPC Annex | 26,220 | 006567 | HHW | 420,206 | mBtu | #, (1) |
| 0446 | Rudder Theatre Complex | 209,293 | 002977 | ELE | 91,117 | kWh | (2) |
| 0446 | Rudder Theatre Complex | 209,293 | 002980 | ELE | 35,042 | kWh | |
| 0446 | Rudder Theatre Complex | 209,293 | 004297 | CHW | 1,349,305 | mBtu | (2) |
| 0446 | Rudder Theatre Complex | 209,293 | 004309 | HHW | 1,172,223 | mBtu | (2) |
| 0446 | Rudder Tower | 92,947 | 001550 | ELE | 28,556 | kWh | |
| 0446 | Rudder Tower | 92,947 | 001551 | ELE | 62,313 | kWh | |
| 0446 | Rudder Tower | 92,947 | 002455 | CHW | 349,316 | mBtu | |
| 0446 | Rudder Tower | 92,947 | 002459 | HHW | 252,929 | mBtu | |
| 0448 | Adams Band Hall | 55,248 | 000978 | ELE | 60,435 | kWh | |
| 0448 | Adams Band Hall | 55,248 | 002555 | CHW | 404,329 | mBtu | |
| 0448 | Adams Band Hall | 55,248 | 002566 | HHW | 295,848 | mBtu | |
| 0449 | Biological Sciences Building - West | 96,038 | 003978 | ELE | 180,826 | kWh | |
| 0449 | Biological Sciences Building - West | 96,038 | 003981 | CHW | 706,826 | mBtu | |
| 0449 | Biological Sciences Building - West | 96,038 | 003985 | HHW | 337,915 | mBtu | |
| 0450 | Duncan Dining Hall | 128,482 | 000300 | ELE | 108,965 | kWh | |
| 0450 | Duncan Dining Hall | 128,482 | 002998 | CHW | 281,678 | mBtu | |
| 0450 | Duncan Dining Hall | 128,482 | 003009 | HHW | 141,321 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-------|-------------------------------------|----------------------------|---------|------|------------------------|-------|----------|
| 0454 | MSC (East Main) | 392,000 | 007600 | ELE | 306,037 | kWh | *, (2) |
| 0454 | MSC (West Main) | 392,000 | 007601 | ELE | 224,121 | kWh | |
| 0454 | MSC BOR | 392,000 | 007420 | ELE | 18,062 | kWh | |
| 0454 | MSC | 392,000 | 007584 | CHW | 1,440,551 | mBtu | |
| 0454 | MSC BOR | 392,000 | 004184 | CHW | 261,633 | mBtu | |
| 0454 | MSC | 392,000 | 007585 | HHW | 515,254 | mBtu | |
| 0454 | MSC BOR | 392,000 | 004196 | HHW | 260,607 | mBtu | |
| 0456 | Military Sciences Building | 43,808 | 006939 | CHW | 337,518 | mBtu | #, (1) |
| 0456 | Military Sciences Building | 43,808 | 006943 | HHW | 210,769 | mBtu | |
| 0457 | TAES Annex Building | 16,364 | 005863 | ELE | 13,990 | kWh | |
| 0457 | TAES Annex Building | 16,364 | 005913 | CHW | 33,571 | mBtu | |
| 0457 | TAES Annex Building | 16,364 | 005917 | HHW | 37,020 | mBtu | |
| 0461 | Coke Building | 24,466 | 004008 | ELE | 32,984 | kWh | |
| 0461 | Coke Building | 24,466 | 005307 | CHW | 87,074 | mBtu | |
| 0461 | Coke Building | 24,466 | 004023 | HHW | 57,915 | mBtu | |
| 0462 | Academic Building | 82,555 | 005861 | ELE | 21,472 | kWh | (2) |
| 0462 | Academic Building | 82,555 | 005903 | ELE | 32,199 | kWh | |
| 0462 | Academic Building | 82,555 | 005905 | CHW | 472,104 | mBtu | |
| 0462 | Academic Building | 82,555 | 005909 | HHW | 482,310 | mBtu | |
| 0463 | Psychology Building | 48,215 | 001575 | ELE | 39,622 | kWh | |
| 0463 | Psychology Building | 48,215 | 002941 | CHW | 154,834 | mBtu | |
| 0463 | Psychology Building | 48,215 | 002945 | HHW | 86,742 | mBtu | |
| 0464 | State Chemist Building | 20,027 | 005839 | ELE | 4,768 | kWh | * |
| 0464 | State Chemist Building | 20,027 | 005837 | ELE | 6,501 | mBtu | |
| 0464 | State Chemist Building | 20,027 | 005841 | HHW | 14,469 | mBtu | |
| 0465 | Butler Hall | 29,699 | 003997 | ELE | 30,812 | kWh | |
| 0465 | Butler Hall | 29,699 | 004000 | CHW | 128,328 | mBtu | |
| 0465 | Butler Hall | 29,699 | 004004 | HHW | 105,705 | mBtu | |
| 0467 | Biological Sciences Building - East | 62,273 | 001543 | ELE | 176,632 | kWh | |
| 0467 | Biological Sciences Building - East | 62,273 | 003851 | CHW | 523,352 | mBtu | *, (2) |
| 0467 | Biological Sciences Building - East | 62,273 | 003862 | HHW | 293,333 | mBtu | |
| 0468 | Evans Library | 712,093 | 000304 | ELE | 256,769 | kWh | |
| 0468 | Evans Library | 712,093 | 000318 | ELE | 102,901 | kWh | |
| 0468 | Evans Library | 712,093 | 000319 | ELE | 99,964 | kWh | |
| 0468 | Evans Library | 712,093 | 000320 | ELE | 85,174 | kWh | |
| 0468 | Evans Library | 712,093 | 006429 | ELE | 94,747 | kWh | |
| 0468 | Evans Library | 712,093 | 003701 | CHW | 983,750 | mBtu | * |
| 0468 | Evans Library | 712,093 | 003895 | CHW | 1,106,517 | mBtu | |
| 0468 | Evans Library | 712,093 | 003903 | CHW | 203,733 | mBtu | |
| 0468 | Evans Library | 712,093 | 003911 | CHW | 900,760 | mBtu | |
| 0468 | Evans Library | 712,093 | 003712 | HHW | 445,895 | mBtu | |
| 0468 | Evans Library | 712,093 | 003899 | HHW | 507,471 | mBtu | |
| 0468 | Evans Library | 712,093 | 003907 | HHW | 52,754 | mBtu | |
| 0468 | Evans Library | 712,093 | 003922 | HHW | 99,044 | mBtu | * |
| 0468 | Evans Library | 712,093 | 005303 | HHW | 57,531 | mBtu | |
| 0469 | Central Campus Parking Garage | 251,304 | 000306 | ELE | 44,962 | kWh | |
| 0469 | Central Campus Parking Garage | 2,844 | 003716 | CHW | 11,520 | mBtu | |
| 0469 | Central Campus Parking Garage | 2,844 | 003720 | HHW | 17,532 | mBtu | |
| 0470 | Glasscock History Bldg | 39,887 | 006407 | ELE | 16,593 | kWh | |
| 0470 | Glasscock History Bldg | 39,887 | 006638 | CHW | 115,336 | mBtu | |
| 0470 | Glasscock History Bldg | 39,887 | 006642 | HHW | 72,265 | mBtu | |
| 0471 | Pavilion | 40,062 | 001455 | ELE | 35,144 | kWh | |
| 0471 | Pavilion | 40,062 | 002769 | CHW | 94,715 | mBtu | |
| 0471 | Pavilion | 40,062 | 002780 | HHW | 21,577 | mBtu | |
| 0472 | Animal Industries | 44,856 | 009042 | ELE | 45,744 | kWh | |
| 0472 | Animal Industries | 44,856 | 009109 | CHW | 181,077 | mBtu | |
| 0472 | Animal Industries | 44,856 | 009113 | HHW | 219,889 | mBtu | |
| 0473 | Williams Administration Building | 69,898 | 007945 | ELE | 55,180 | kWh | |
| 0473 | Williams Administration Building | 69,898 | 007946 | CHW | 409,222 | mBtu | |
| 0473 | Williams Administration Building | 69,898 | 007947 | HHW | 336,911 | mBtu | |
| 0474 | YMCA Building | 36,035 | 007524 | ELE | 21,807 | kWh | |
| 0474 | YMCA Building | 36,035 | 007525 | CHW | 46,860 | mBtu | |
| 0474 | YMCA Building | 36,035 | 007526 | HHW | 11,348 | mBtu | |
| 0476 | Francis Hall | 36,850 | 008015 | ELE | 34,993 | kWh | |
| 0476 | Francis Hall | 36,850 | 008033 | CHW | 111,781 | mBtu | |
| 0476 | Francis Hall | 36,850 | 008034 | HHW | 49,615 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-----------|---|----------------------------|---------|------|------------------------|-------|------------|
| 0477 | Anthropology Building | 51,592 | 001558 | ELE | 26,609 | kWh | |
| 0477 | Anthropology Building | 51,592 | 003664 | CHW | 138,341 | mBtu | |
| 0477 | Anthropology Building | 51,592 | 003668 | HHW | 143,992 | mBtu | |
| 0478 | Scoates Hall | 62,228 | 007961 | ELE | 63,507 | kWh | |
| 0478 | Scoates Hall | 62,228 | 007968 | CHW | 327,389 | mBtu | |
| 0478 | Scoates Hall | 62,228 | 007969 | HHW | 262,201 | mBtu | |
| 0480 | Bolton Hall | 39,686 | 006845 | ELE | 33,144 | kWh | |
| 0480 | Bolton Hall | 39,686 | 007012 | CHW | 117,535 | mBtu | |
| 0480 | Bolton Hall | 39,686 | 007016 | HHW | 47,698 | mBtu | #, (1) |
| 0481 | Heaton Hall | 13,640 | 005712 | ELE | NA | kWh | |
| 0481 | Heaton Hall | 13,640 | 007531 | CHW | 210,582 | mBtu | |
| 0481 | Heaton Hall | 13,640 | 007535 | HHW | 184,491 | mBtu | |
| 0482 | Fermier Hall | 19,074 | 005779 | ELE | 24,343 | kWh | |
| 0482 | Fermier Hall | 19,074 | 005878 | CHW | 273,504 | mBtu | |
| 0482 | Fermier Hall | 19,074 | 005881 | HHW | 207,435 | mBtu | |
| 0483 | Thompson Hall | 81,404 | 003688 | ELE | 63,547 | kWh | |
| 0483 | Thompson Hall | 81,404 | 003887 | CHW | 138,901 | mBtu | |
| 0483 | Thompson Hall | 81,404 | 003891 | HHW | 61,620 | mBtu | |
| 0484 | Chemistry Building | 205,393 | 007152 | ELE | 93,406 | kWh | |
| 0484 | Chemistry Building | 205,393 | 007556 | ELE | 15,065 | kWh | * |
| 0484 | Chemistry Building | 205,393 | 007557 | ELE | 118,788 | kWh | * |
| 0484 | Chemistry Building | 205,393 | 007559 | ELE | 180,591 | kWh | * |
| 0484 | Chemistry Building | 205,393 | 007028 | CHW | 963,500 | mBtu | |
| 0484 | Chemistry Building | 205,393 | 007223 | CHW | 1,597,454 | mBtu | |
| 0484 | Chemistry Building | 205,393 | 007032 | HHW | 821,520 | mBtu | |
| 0484 | Chemistry Building | 205,393 | 007227 | HHW | 1,517,714 | mBtu | |
| 0490 | Halbouty Geosciences Building | 120,874 | 006691 | ELE | 67,563 | kWh | |
| 0490 | Halbouty Geosciences Building | 120,874 | 006695 | ELE | 101,628 | kWh | |
| 0490 | Halbouty Geosciences Building | 120,874 | 006896 | CHW | 649,659 | mBtu | |
| 0490 | Halbouty Geosciences Building | 120,874 | 006913 | CHW | 377,966 | mBtu | |
| 0490 | Halbouty Geosciences Building | 120,874 | 006900 | HHW | 410,895 | mBtu | |
| 0490 | Halbouty Geosciences Building | 120,874 | 006917 | HHW | 227,800 | mBtu | |
| 0492 | Civil Engineering Building | 56,537 | 005783 | ELE | 70,860 | kWh | |
| 0492 | Civil Engineering Building | 56,537 | 005950 | CHW | 289,806 | mBtu | (2) |
| 0492 | Civil Engineering Building | 56,537 | 005954 | HHW | 182,659 | mBtu | |
| 0495 | Sbisa Dining Hall | 94,233 | 000352 | ELE | 140,408 | kWh | |
| 0495 | Sbisa Dining Hall | 94,233 | 000353 | ELE | 117,882 | kWh | |
| 0495 | Sbisa Dining Hall | 94,233 | 001951 | CHW | 705,285 | mBtu | |
| 0495 | Sbisa Dining Hall | 94,233 | 001957 | HHW | 278,830 | mBtu | |
| 0496 | Utilities & Energy Services Central Office | 46,110 | 007706 | ELE | 10,312 | kWh | (2) |
| 0496 | Utilities & Energy Services Central Office | 46,110 | 006929 | CHW | 76,040 | mBtu | (2) |
| 0496 | Utilities & Energy Services Central Office | 46,110 | 006933 | HHW | 30,404 | mBtu | (2) |
| 0499 | Engineering Innovation Center | 28,339 | 001561 | ELE | 26,083 | kWh | |
| 0499 | Engineering Innovation Center | 28,339 | 002672 | CHW | 52,123 | mBtu | (2) |
| 0499 | Engineering Innovation Center | 28,339 | 002683 | HHW | 40,761 | mBtu | #, (1) (2) |
| 0501 | Concrete Materials Laboratory | 9,600 | 005791 | ELE | 5,177 | kWh | * |
| 0506 | Nagle Hall | 32,306 | 001484 | ELE | 12,990 | kWh | *, (2) |
| 0506 | Nagle Hall | 32,306 | 003619 | CHW | 193,972 | mBtu | |
| 0506 | Nagle Hall | 32,306 | 003623 | HHW | 83,511 | mBtu | |
| 0507 | Veterinary Medical Science Building | 69,367 | 003013 | ELE | 86,471 | kWh | |
| 0507 | Veterinary Medical Science Building | 69,367 | 003640 | CHW | 708,688 | mBtu | |
| 0507 | Veterinary Medical Science Building | 69,367 | 003644 | HHW | 465,449 | mBtu | |
| 0508 | Veterinary Teaching Hospital | 96,416 | 003022 | ELE | 82,246 | kWh | |
| 0508-1026 | Veterinary Teaching Hospital and Veterinary Medicine Administration | 191,096 | 004166 | CHW | 1,321,715 | mBtu | |
| 0508-1026 | Veterinary Teaching Hospital and Veterinary Medicine Administration | 191,096 | 004170 | HHW | 1,073,877 | mBtu | (1) |
| 0511 | Heep Laboratory Building | 40,476 | 005787 | ELE | 65,007 | kWh | |
| 0511 | Heep Laboratory Building | 40,476 | 005821 | CHW | 383,392 | mBtu | |
| 0511 | Heep Laboratory Building | 40,476 | 005825 | HHW | 234,032 | mBtu | |
| 0512 | All Faiths Chapel | 8,999 | 004340 | ELE | 7,106 | kWh | |
| 0512 | All Faiths Chapel | 8,999 | 004288 | CHW | 64,439 | mBtu | |
| 0512 | All Faiths Chapel | 8,999 | 004293 | HHW | 64,848 | mBtu | |
| 0513 | Doherty Building | 42,336 | 000299 | ELE | 54,032 | kWh | * |
| 0513 | Doherty Building | 42,336 | 002898 | CHW | 417,576 | mBtu | |
| 0513 | Doherty Building | 42,336 | 002902 | HHW | 381,820 | mBtu | |
| 0514 | Munnerlyn Astronomy & Space Sciences Engineering | 22,134 | 007558 | ELE | 13,123 | kWh | |
| 0514 | Munnerlyn Astronomy & Space Sciences Engineering | 22,134 | 007487 | CHW | 36,130 | mBtu | |
| 0514 | Munnerlyn Astronomy & Space Sciences Engineering | 22,134 | 007491 | HHW | 9,437 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-------|---------------------------------------|----------------------------|---------|------|------------------------|-------|-------------|
| 0516 | Computing Services Center | 30,014 | 005259 | ELE | 482,306 | kWh | |
| 0516 | Computing Services Center | 30,014 | 003959 | CHW | 1,311,414 | mBtu | |
| 0516 | Computing Services Center | 30,014 | 003963 | HHW | 1 | mBtu | |
| 0520 | Beutel Health Center | 63,318 | 003785 | ELE | 61,064 | kWh | |
| 0520 | Beutel Health Center | 63,318 | 003933 | CHW | 464,047 | mBtu | #, (1) |
| 0520 | Beutel Health Center | 63,318 | 003944 | HHW | 265,038 | mBtu | #, (1) |
| 0521 | Heldenfels Hall | 104,949 | 001547 | ELE | 86,210 | kWh | |
| 0521 | Heldenfels Hall | 104,949 | 002962 | CHW | 456,856 | mBtu | |
| 0521 | Heldenfels Hall | 104,949 | 002973 | HHW | 256,501 | mBtu | |
| 0524 | Blocker building | 257,953 | 001545 | ELE | 212,692 | kWh | * |
| 0524 | Blocker building | 257,953 | 002914 | CHW | 982,387 | mBtu | |
| 0524 | Blocker building | 257,953 | 002918 | HHW | 183,149 | mBtu | (2) |
| 0548 | Clements Residence Hall | 62,156 | 000048 | ELE | 34,422 | kWh | |
| 0548 | Clements Residence Hall | 62,156 | 002729 | CHW | 383,932 | mBtu | |
| 0548 | Clements Residence Hall | 62,156 | 002740 | HHW | 321,958 | mBtu | |
| 0549 | Haas Residence Hall | 69,668 | 001398 | ELE | 43,759 | kWh | * |
| 0549 | Haas Residence Hall | 69,668 | 002983 | CHW | 409,591 | mBtu | |
| 0549 | Haas Residence Hall | 69,668 | 002994 | HHW | 358,332 | mBtu | |
| 0550 | McFadden Residence Hall | 62,156 | 000339 | ELE | 39,260 | kWh | |
| 0550 | McFadden Residence Hall | 62,156 | 002188 | CHW | 531,215 | mBtu | |
| 0550 | McFadden Residence Hall | 62,156 | 002192 | HHW | 436,355 | mBtu | |
| 0652 | Neeley Residence Hall | 69,668 | 000056 | ELE | 47,017 | kWh | |
| 0652 | Neeley Residence Hall | 69,668 | 002147 | CHW | 419,890 | mBtu | |
| 0652 | Neeley Residence Hall | 69,668 | 002151 | HHW | 280,904 | mBtu | |
| 0653 | Hobby Residence Hall | 62,156 | 000057 | ELE | 43,861 | kWh | |
| 0653 | Hobby Residence Hall | 62,156 | 002401 | CHW | 563,662 | mBtu | |
| 0653 | Hobby Residence Hall | 62,156 | 002405 | HHW | 405,484 | mBtu | |
| 0682 | Wisnaker Engineering Research Center | 177,704 | 005246 | ELE | 209,660 | kWh | |
| 0682 | Wisnaker Engineering Research Center | 177,704 | 003879 | CHW | 685,623 | mBtu | |
| 0682 | Wisnaker Engineering Research Center | 177,704 | 003883 | HHW | 270,486 | mBtu | |
| 0740 | McNew Laboratory | 20,904 | 005874 | ELE | 47,936 | kWh | |
| 0740 | McNew Laboratory | 20,904 | 005974 | CHW | 350,041 | mBtu | |
| 0740 | McNew Laboratory | 20,904 | 005968 | HHW | 170,349 | mBtu | #, (1) |
| 0806 | Soil Testing Labs | 5,544 | 006875 | ELE | 19,084 | kWh | |
| 0815 | Entomology Research Lab | 17,618 | 005799 | ELE | 30,045 | kWh | |
| 0815 | Entomology Research Lab | 17,618 | 006043 | CHW | 108,909 | mBtu | |
| 0880 | TVMC-Small Animal Building | 3,260 | 005958 | CHW | 23,825 | mBtu | |
| 0880 | TVMC-Small Animal Building | 3,260 | 005962 | HHW | 605 | mBtu | (2) |
| 0972 | Laboratory Animal Care Building | 52,178 | 007063 | ELE | 126,168 | kWh | |
| 0972 | Laboratory Animal Care Building | 52,178 | 007067 | ELE | 50,158 | kWh | |
| 0972 | Laboratory Animal Care Building | 52,178 | 007071 | CHW | 950,301 | mBtu | |
| 0972 | Laboratory Animal Care Building | 52,178 | 006991 | HHW | 570,471 | mBtu | |
| 1020 | Vivarium III | 12,234 | 005857 | ELE | 20,167 | kWh | |
| 1020 | Vivarium III | 12,234 | 005997 | CHW | 164,997 | mBtu | #, (1) |
| 1020 | Vivarium III | 12,234 | 006001 | HHW | 120,103 | mBtu | #, (1) |
| 1026 | Veterinary Medicine Administration | 94,680 | 006072 | ELE | 152,384 | kWh | |
| 1026 | Veterinary Medicine Administration | 94,680 | 006049 | CHW | 772,088 | mBtu | |
| 1026 | Veterinary Medicine Administration | 98,680 | 006053 | HHW | 621,484 | mBtu | * |
| 1041 | Texas Vet Med Diagnostic Lab | 55,169 | 001466 | ELE | 94,989 | kWh | |
| 1041 | Texas Vet Med Diagnostic Lab | 55,169 | 001539 | ELE | 77,459 | kWh | |
| 1041 | Texas Vet Med Diagnostic Lab | 55,169 | 003817 | CHW | 381,539 | mBtu | |
| 1041 | Texas Vet Med Diagnostic Lab | 55,169 | 004137 | CHW | 571,247 | mBtu | |
| 1041 | Texas Vet Med Diagnostic Lab | 55,169 | 003821 | HHW | 207,930 | mBtu | |
| 1041 | Texas Vet Med Diagnostic Lab | 55,169 | 004130 | HHW | 222,070 | mBtu | |
| 1042 | Forest Science Laboratory Building | 9,632 | 006036 | ELE | 21,957 | kWh | * |
| 1085 | Veterinary Small Animal Hospital | 103,440 | 004136 | ELE | 227,065 | kWh | |
| 1085 | Veterinary Small Animal Hospital | 103,440 | 003656 | CHW | 939,787 | mBtu | |
| 1085 | Veterinary Small Animal Hospital | 103,440 | 003660 | HHW | 538,824 | mBtu | #, (1) |
| 1089 | Utilities Energy Office Annex | 2,937 | 006964 | ELE | 3,491 | kWh | |
| 1146 | Biological Control Facility | 13,492 | 005795 | ELE | 30,859 | kWh | (2) |
| 1146 | Biological Control Facility | 13,492 | 005887 | CHW | 128,575 | mBtu | #, (1) |
| 1146 | Biological Control Facility | 13,492 | 005891 | HHW | 75,689 | mBtu | |
| 1156 | Physical Plant Administration & Shops | 101,704 | 007483 | ELE | 102,510 | kWh | |
| 1156 | Physical Plant Administration & Shops | 101,704 | 007679 | CHW | 104,907 | mBtu | #, (1), (2) |
| 1156 | Physical Plant Administration & Shops | 101,704 | 007683 | HHW | 160,020 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-------|--|-------------------------|---------|------|---------------------|-------|----------|
| 1184 | Veterinary Anatomic Pathology | 17,223 | 001445 | ELE | 51,431 | kWh | * |
| 1184 | Veterinary Anatomic Pathology | 17,223 | 006995 | CHW | 100,606 | mBtu | |
| 1184 | Veterinary Anatomic Pathology | 17,223 | 006999 | HHW | 168,595 | mBtu | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 005256 | ELE | 89,596 | kWh | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 003016 | ELE | 66,733 | kWh | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 007455 | ELE | 38,428 | kWh | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 003648 | CHW | 712,700 | mBtu | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 007456 | CHW | 201,693 | mBtu | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 003652 | HHW | 872,538 | mBtu | |
| 1194 | Veterinary Large Animal Hospital | 140,865 | 007457 | HHW | 49,482 | mBtu | |
| 1197 | Veterinary Research Building | 114,666 | 006355 | ELE | 64,319 | kWh | (2) |
| 1197 | Veterinary Research Building | 114,666 | 006359 | ELE | 31,362 | kWh | (2) |
| 1197 | Veterinary Research Building | 114,666 | 006062 | CHW | 936,821 | mBtu | |
| 1197 | Veterinary Research Building | 114,666 | 006066 | HHW | 851,684 | mBtu | |
| 1416 | Hullabaloo Residence Hall | 253,452 | 007845 | ELE | 184,424 | kWh | |
| 1416 | Hullabaloo Residence Hall | 253,452 | 007846 | CHW | 689,039 | mBtu | |
| 1416 | Hullabaloo Residence Hall | 253,452 | 007847 | HHW | 214,574 | mBtu | |
| 1450 | University Apartments - Laundry at the Gardens | 1,428 | 006885 | ELE | 5,345 | kWh | |
| 1451 | University Apartments - The Gardens J | 33,535 | 006981 | ELE | 21,555 | kWh | |
| 1453 | University Apartments - The Gardens L | 33,535 | 006884 | ELE | 18,234 | kWh | |
| 1454 | University Apartments - The Gardens F | 33,535 | 006980 | ELE | 21,440 | kWh | * |
| 1455 | University Apartments - The Gardens G | 33,535 | 006882 | ELE | 19,177 | kWh | * |
| 1456 | University Apartments - The Gardens H | 33,535 | 007962 | ELE | 18,831 | kWh | |
| 1457 | University Apartments - The Gardens M | 33,535 | 007503 | ELE | 23,080 | kWh | |
| 1458 | University Apartments - The Gardens N | 33,535 | 007504 | ELE | 25,383 | kWh | |
| 1459 | University Apartments - The Gardens P | 33,535 | 007505 | ELE | 24,586 | kWh | |
| 1460 | University Apartments - The Gardens Q | 33,535 | 007506 | ELE | 20,203 | kWh | |
| 1497 | Utilities & Energy Services Business Office | 3,480 | 007082 | ELE | 3,849 | kWh | |
| 1497 | Utilities & Energy Services Business Office | 3,480 | 006341 | CHW | 11,781 | mBtu | |
| 1497 | Utilities & Energy Services Business Office | 3,480 | 006345 | HHW | 8,038 | mBtu | |
| 1501 | Kleberg Center | 165,031 | 007449 | ELE | 252,104 | kWh | (2) |
| 1501 | Kleberg Center | 165,031 | 002624 | CHW | 929,288 | mBtu | |
| 1501 | Kleberg Center | 165,031 | 002628 | HHW | 1,130,901 | mBtu | |
| 1502 | Heep Center | 158,979 | 001556 | ELE | 243,491 | kWh | |
| 1502 | Heep Center | 158,979 | 002599 | CHW | 956,012 | mBtu | |
| 1502 | Heep Center | 158,979 | 002603 | HHW | 330,029 | mBtu | |
| 1503 | Cater-Mattil Hall | 27,958 | 007977 | ELE | 89,774 | kWh | |
| 1503 | Cater-Mattil Hall | 27,958 | 008001 | CHW | 169,916 | mBtu | |
| 1504 | Reynolds Medical Sciences Building | 169,859 | 003975 | ELE | 219,471 | kWh | |
| 1504 | Reynolds Medical Sciences Building | 169,859 | 003989 | CHW | 1,014,093 | mBtu | |
| 1504 | Reynolds Medical Sciences Building | 169,859 | 003993 | HHW | 579,267 | mBtu | |
| 1505 | Rosenthal Meat Science & Technology Center | 30,889 | 003627 | ELE | 119,979 | kWh | * |
| 1505 | Rosenthal Meat Science & Technology Center | 30,889 | 002573 | CHW | 136,883 | mBtu | |
| 1505 | Rosenthal Meat Science & Technology Center | 30,889 | 002577 | HHW | 77,770 | mBtu | |
| 1506 | Horticulture-Forest Science Building | 118,648 | 001544 | ELE | 154,187 | kWh | |
| 1506 | Horticulture-Forest Science Building | 118,648 | 003967 | CHW | 320,884 | mBtu | |
| 1506 | Horticulture-Forest Science Building | 118,648 | 003971 | HHW | 218,796 | mBtu | |
| 1507 | Biochemistry-Biophysics Building | 166,079 | 001459 | ELE | 144,688 | kWh | |
| 1507 | Biochemistry-Biophysics Building | 166,079 | 001460 | ELE | 159,123 | kWh | |
| 1507 | Biochemistry-Biophysics Building | 166,079 | 003025 | CHW | 605,097 | mBtu | |
| 1507 | Biochemistry-Biophysics Building | 166,079 | 003029 | HHW | 926,898 | mBtu | |
| 1508 | Price Hobgood Ag. Engineering Research Lab | 27,666 | 005638 | ELE | 27,677 | kWh | |
| 1508 | Price Hobgood Ag. Engineering Research Lab | 27,666 | 006005 | CHW | 26,544 | mBtu | |
| 1508 | Price Hobgood Ag. Engineering Research Lab | 27,666 | 006009 | HHW | 20,589 | mBtu | |
| 1509 | Medical Sciences Library | 84,183 | 000350 | ELE | 115,684 | kWh | (1) |
| 1509 | Medical Sciences Library | 84,183 | 003777 | CHW | 523,320 | mBtu | |
| 1509 | Medical Sciences Library | 84,183 | 003781 | HHW | 238,863 | mBtu | |
| 1510 | Wehner Building | 259,681 | 006849 | ELE | 206,617 | kWh | |
| 1510 | Wehner Building | 259,681 | 006685 | ELE | 229,102 | kWh | |
| 1510 | Wehner Building | 259,681 | 002687 | CHW | 984,934 | mBtu | |
| 1510 | Wehner Building | 259,681 | 002691 | HHW | 234,112 | mBtu | |
| 1511 | West Campus Library Facility | 68,125 | 004342 | ELE | 93,826 | kWh | |
| 1511 | West Campus Library Facility | 68,125 | 004313 | CHW | 474,982 | mBtu | |
| 1511 | West Campus Library Facility | 68,125 | 004318 | HHW | 186,279 | mBtu | |
| 1512 | Southern Crop Improvement Greenhouse | 48,154 | 005931 | ELE | 83,073 | kWh | #, (1) |
| 1513 | Borlaug Center for Southern Crop Improvement | 68,739 | 005802 | ELE | 328,763 | kWh | |
| 1513 | Borlaug Center for Southern Crop Improvement | 68,739 | 005936 | CHW | 572,005 | mBtu | |
| 1513 | Borlaug Center for southern Crop Improvement | 68,739 | 005895 | HHW | 229,934 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (Continued)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|----------------|--|----------------------------|---------|------|------------------------|-------|-----------|
| 1518 | TX School of Rural Public Health A | 69,079 | 005273 | ELE | 72,831 | kWh | |
| 1519 | TX School of Rural Public Health B | 24,761 | 005274 | ELE | 46,121 | kWh | #, (1) |
| 1520 | TX School of Rural Public Health C | 13,264 | 005275 | ELE | 96,953 | kWh | *, #, (1) |
| 1518-1519-1520 | TX School of Rural Public Health A,B,C | 107,104 | 005294 | CHW | 313,549 | mBtu | |
| 1518-1519-1520 | TX School of Rural Public Health A,B,C | 107,104 | 005298 | HHW | 282,029 | mBtu | |
| 1525 | Nuclear Magnetic Resonance Facility | 37,282 | 006718 | ELE | 81,828 | kWh | * |
| 1525 | Nuclear Magnetic Resonance Facility | 37,282 | 006715 | CHW | 515,385 | mBtu | |
| 1525 | Nuclear Magnetic Resonance Facility | 37,282 | 006716 | HHW | 480,736 | mBtu | |
| 1530 | Interdisciplinary Life Sciences Building | 218,540 | 006286 | ELE | 357,610 | kWh | * |
| 1530 | Interdisciplinary Life Sciences Building | 218,540 | 006288 | ELE | 214,240 | kWh | |
| 1530 | Interdisciplinary Life Sciences Building | 218,540 | 006290 | CHW | 1,784,784 | mBtu | |
| 1530 | Interdisciplinary Life Sciences Building | 218,540 | 006294 | HHW | 1,399,236 | mBtu | |
| 1535 | Agriculture and Life Sciences Building | 168,353 | 007205 | ELE | 110,105 | kWh | |
| 1535 | Agriculture and Life Sciences Building | 168,353 | 007206 | CHW | 361,585 | mBtu | |
| 1535 | Agriculture and Life Sciences Building | 168,353 | 007207 | HHW | 53,490 | mBtu | |
| 1536 | AgriLife Services Building | 80,907 | 007571 | ELE | 46,946 | kWh | |
| 1536 | AgriLife Services Building | 80,907 | 007572 | CHW | 140,175 | mBtu | |
| 1536 | AgriLife Services Building | 80,907 | 007573 | HHW | 62,564 | mBtu | |
| 1538 | Agriculture Program Visitors Center | 12,923 | 007209 | ELE | 13,600 | kWh | |
| 1538 | Agriculture Program Visitors Center | 12,923 | 007210 | CHW | 54,442 | mBtu | |
| 1538 | Agriculture Program Visitors Center | 12,923 | 007211 | HHW | 21,015 | mBtu | |
| 1540 | Physical Education Activity Program Building | 116,900 | 007881 | ELE | 78,775 | kWh | |
| 1540 | Physical Education Activity Program Building | 116,900 | 007878 | CHW | 260,433 | mBtu | |
| 1540 | Physical Education Activity Program Building | 116,900 | 007879 | HHW | 230,830 | mBtu | |
| 1550 | Olsen Field at Bluebell Park | 60,537 | 007560 | ELE | 109,666 | kWh | |
| 1554 | Reed Arena | 230,000 | 007582 | ELE | 168,230 | kWh | |
| 1554 | Reed Arena | 230,000 | 006243 | ELE | 561 | kWh | (1) |
| 1554 | Reed Arena | 230,000 | 006244 | ELE | 89,718 | kWh | |
| 1554-1558 | Reed Arena and Cox-McFerrin Center | 328,185 | 007576 | CHW | 1,400,504 | mBtu | |
| 1554-1558 | Reed Arena and Cox-McFerrin Center | 328,185 | 007578 | HHW | 775,449 | mBtu | |
| 1558 | Cox-McFerrin Center for Aggie Basketball | 98,185 | 007581 | ELE | 75,806 | kWh | |
| 1558 | Cox-McFerrin Center for Aggie Basketball | 98,185 | 007575 | CHW | 241,973 | mBtu | |
| 1558 | Cox-McFerrin Center for Aggie Basketball | 98,185 | 007577 | HHW | 132,492 | mBtu | |
| 1559 | West Campus Parking Garage | 1,541,457 | 001453 | ELE | 154,322 | kWh | |
| 1559 | West Campus Parking Garage | 13,000 | 004322 | CHW | 27,972 | mBtu | (2) |
| 1559 | West Campus Parking Garage | 13,000 | 004327 | HHW | 24,002 | mBtu | (1) |
| 1560 | Student Recreation Center | 334,642 | 000363 | ELE | 165,537 | kWh | |
| 1560 | Student Recreation Center | 334,642 | 000366 | ELE | 352,545 | kWh | |
| 1560 | Student Recreation Center | 334,642 | 002933 | CHW | 1,836,579 | mBtu | |
| 1560 | Student Recreation Center | 334,642 | 002937 | HHW | 1,818,232 | mBtu | |
| 1590 | White Creek Apartment 1 | 168,246 | 008517 | ELE | 105,516 | kWh | * |
| 1590 | White Creek Apartment 1 | 168,246 | 008518 | CHW | 256,148 | mBtu | * |
| 1590 | White Creek Apartment 1 | 168,246 | 008522 | HHW | 98,724 | mBtu | * |
| 1591 | White Creek Apartment 2 | 179,467 | 008528 | ELE | 110,987 | kWh | * |
| 1591 | White Creek Apartment 2 | 179,467 | 008529 | CHW | 235,307 | mBtu | * |
| 1591 | White Creek Apartment 2 | 179,467 | 008533 | HHW | 110,618 | mBtu | * |
| 1592 | White Creek Apartment 3 | 179,467 | 008538 | ELE | 113,766 | kWh | |
| 1592 | White Creek Apartment 3 | 179,467 | 008539 | CHW | 301,731 | mBtu | |
| 1592 | White Creek Apartment 3 | 179,467 | 008543 | HHW | 97,576 | mBtu | |
| 1600 | Gilchrist TTI Building | 67,143 | 005286 | ELE | 48,720 | kWh | |
| 1600 | Gilchrist TTI Building | 67,143 | 002649 | CHW | 166,619 | mBtu | |
| 1600 | Gilchrist TTI Building | 67,143 | 002653 | HHW | 138,328 | mBtu | |
| 1601 | International Ocean Discovery Building | 86,576 | 006351 | ELE | 116,733 | kWh | |
| 1601 | International Ocean Discovery Building | 86,576 | 006382 | CHW | 151,359 | mBtu | |
| 1601 | International Ocean Discovery Building | 86,576 | 008144 | CHW | 32,849 | mBtu | (2) |
| 1601 | International Ocean Discovery Building | 86,576 | 008145 | HHW | 35,818 | mBtu | |
| 1604 | Offshore Technology Research Center | 40,014 | 006659 | ELE | 81,046 | kWh | |
| 1604 | Offshore Technology Research Center | 40,014 | 006660 | ELE | 7,153 | kWh | (2) |
| 1604 | Offshore Technology Research Center | 40,014 | 008142 | CHW | 304,755 | mBtu | |
| 1604 | Offshore Technology Research Center | 40,014 | 008143 | HHW | 217,961 | mBtu | |
| 1606 | George Bush Presidential Library & Museum | 121,678 | 000244 | ELE | 97,984 | kWh | |
| 1606 | George Bush Presidential Library & Museum | 121,678 | 002808 | CHW | 485,633 | mBtu | |
| 1606 | George Bush Presidential Library & Museum | 121,678 | 002812 | HHW | 279,889 | mBtu | |
| 1607 | Allen Building | 133,327 | 000243 | ELE | 90,988 | kWh | * |
| 1607 | Allen Building | 133,327 | 002800 | CHW | 264,667 | mBtu | |
| 1607 | Allen Building | 133,327 | 002804 | HHW | 83,371 | mBtu | |

Table I-1 February 2016 Monthly Consumption for TAMU Buildings (*Continued*)

| TAMU# | Building Name | Area (ft ²) | MeterID | Type | Monthly Consumption | Units | Comments |
|-------|--|----------------------------|---------|------|------------------------|-------|----------|
| 1608 | Annenberg Presidential Conference Center | 65,688 | 000245 | ELE | 66,524 | kWh | |
| 1608 | Annenberg Presidential Conference Center | 65,688 | 002761 | CHW | 523,344 | mBtu | |
| 1608 | Annenberg Presidential Conference Center | 65,688 | 002765 | HHW | 455,118 | mBtu | |
| 1609 | TTI Headquarters | 66,707 | 006495 | ELE | 54,665 | kWh | * |
| 1609 | TTI Headquarters | 66,707 | 006496 | CHW | 214,034 | mBtu | |
| 1609 | TTI Headquarters | 66,707 | 006497 | HHW | 100,407 | mBtu | |
| 1611 | Engineering Research Building | 35,000 | 008462 | ELE | 160,301 | kWh | (2) |
| 1611 | Engineering Research Building | 35,000 | 008463 | CHW | 830,637 | mBtu | (2) |
| 1611 | Engineering Research Building | 35,000 | 008467 | HHW | 619,266 | mBtu | (2) |
| 1800 | General Services Complex | 203,369 | 005441 | ELE | 182,737 | kWh | |
| 1800 | General Services Complex | 203,369 | 005468 | CHW | 557,391 | mBtu | |
| 1800 | General Services Complex | 203,369 | 005472 | HHW | 66,456 | mBtu | |
| 1810 | Office of the State Chemist Building | 31,735 | 009073 | ELE | 58,413 | kWh | #, (1) |
| 1810 | Office of the State Chemist Building | 31,735 | 005460 | CHW | 102,851 | mBtu | |
| 1810 | Office of the State Chemist Building | 31,735 | 005464 | HHW | 137,136 | mBtu | |
| 1811 | Vet Med Research Bldg Addition | 52,993 | 006705 | ELE | 204,696 | kWh | |
| 1811 | Vet Med Research Bldg Addition | 52,993 | 006706 | CHW | 303,504 | mBtu | |
| 1811 | Vet Med Research Bldg Addition | 52,993 | 006707 | HHW | 379,201 | mBtu | |
| 1900 | Texas Institute for Genomic Medicine | 34,120 | 005548 | ELE | 76,721 | kWh | |
| 1900 | Texas Institute for Genomic Medicine | 34,120 | 005545 | CHW | 383,688 | mBtu | |
| 1900 | Texas Institute for Genomic Medicine | 34,120 | 005546 | HHW | 346,773 | mBtu | #, (1) |
| 1904 | Texas A&M Institute for Preclinical Studies A | 113,559 | 006364 | ELE | 209,815 | kWh | |
| 1904 | Texas A&M Institute for Preclinical Studies A | 113,559 | 006365 | CHW | 911,427 | mBtu | |
| 1904 | Texas A&M Institute for Preclinical Studies A | 113,559 | 006366 | HHW | 864,688 | mBtu | #, (1) |
| 1910 | National Center for Therapeutics Manufacturing | 149,924 | 007517 | ELE | 180,060 | kWh | |
| 1910 | National Center for Therapeutics Manufacturing | 149,924 | 007518 | ELE | 166,937 | kWh | |
| 1910 | National Center for Therapeutics Manufacturing | 149,924 | 007519 | CHW | 2,132,498 | mBtu | |
| 1910 | National Center for Therapeutics Manufacturing | 149,924 | 007520 | HHW | 1,136,251 | mBtu | |
| 1911 | Multi-Species Research Building | 21,000 | 009138 | ELE | NA | kWh | * |
| 1911 | Multi-Species Research Building | 21,000 | 009129 | CHW | 135,825 | mBtu | |
| 1911 | Multi-Species Research Building | 21,000 | 009133 | HHW | 131,401 | mBtu | |
| 10226 | NCTM Manufacturing Building | 113,397 | 007652 | ELE | NA | kWh | * |
| 10226 | NCTM Manufacturing Building | 113,397 | 007648 | CHW | 1,862,357 | mBtu | |
| 10226 | NCTM Manufacturing Building | 113,397 | 007649 | HHW | 756,831 | mBtu | |
| 10226 | NCTM Manufacturing Building | 113,397 | 008133 | HHW | 118,124 | mBtu | |

1 mBtu = 1 000 Btu

NA: Not available

Monthly consumption in blue: Modified values

*: Missing data

: Questionable data

(1): Consumption estimated and documented in the report *Part II - Data Analysis: Energy Use Estimation and Observations Section 2*(2): Observation(s) documented in the report *Part II - Data Analysis: Energy Use Estimation and Observations Section 3*

(3): Missing data or changed consumption levels due to construction

II. Data Analysis: Energy Use Estimation and Observation

II-1 Meters with Missing Energy Consumption Data

During the month of February 2016, 52 meters in 37 buildings and complexes have missing daily data. The missing data have been filled in using consumption models based on the past data if available or using linear interpolation or some sort of average, and the monthly consumption has been estimated with the filled-in daily consumption. Table II-1 is the list of meters with missing data.

Table II-1 Meters with missing data during February 2016

| Building No. | Building Name | MeterID | Type | Unit | Original Monthly Consumption | Estimated Monthly Consumption | # of Days | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|--------------|---|---------|------|------|------------------------------|-------------------------------|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 290 | Wells Residence Hall | 006870 | ELE | kWh | 770 | 39,534 | 29 | A | A | A | A | A | 5 | 6 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| 0296-0297 | Mitchell Inst. For Fundamental Phys & Astronomy | 006534 | CHW | mBtu | 296,850 | 407,608 | 12 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 0296-0297 | Mitchell Inst. For Fundamental Phys & Astronomy | 006535 | CHW | mBtu | 138,158 | 235,354 | 12 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 363 | Bright Football Complex | 008463 | ELE | kWh | NA | 209,953 | 9 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 367 | Kyle Field | 008852 | CHW | mBtu | 1,091,696 | 1,220,959 | 3 | M | M | M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 367 | Kyle Field | 008856 | HHW | mBtu | 286,026 | 305,823 | 3 | L | L | L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0325-0385 | CE TTI Office & Lab Building | 009122 | ELE | kWh | NA | NA | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0325-0385 | CE TTI Office & Lab Building | 009124 | HHW | mBtu | NA | NA | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 386 | Jack E. Brown Chemical Engineering Building | 001428 | ELE | kWh | 110,510 | 156,811 | 9 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 386 | Jack E. Brown Chemical Engineering Building | 001428 | ELE | kWh | 226,402 | 333,162 | 9 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 386 | Jack E. Brown Chemical Engineering Building | 002250 | CHW | mBtu | 1,264,666 | 1,783,872 | 9 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 386 | Jack E. Brown Chemical Engineering Building | 006871 | CHW | mBtu | 55,605 | 100,695 | 9 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 386 | Jack E. Brown Chemical Engineering Building | 002254 | HHW | mBtu | 539,692 | 1,067,880 | 9 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 420 | Milner Hall | 009144 | ELE | kWh | NA | 21,472 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 454 | MSC BOR | 007420 | ELE | kWh | NA | 18,062 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 465 | Butler Hall | 003997 | ELE | kWh | 12,333 | 30,812 | 17 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 467 | Biological Sciences Building - East | 001543 | ELE | kWh | 176,332 | * | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 468 | Evans Library | 000318 | ELE | kWh | 26,368 | 102,901 | 21 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 468 | Evans Library | 000320 | ELE | kWh | 27,659 | 85,174 | 20 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 468 | Evans Library | 006429 | ELE | kWh | NA | 94,747 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 468 | Evans Library | 003903 | CHW | mBtu | 46,195 | 203,733 | 22 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 468 | Evans Library | 003907 | HHW | mBtu | 10,106 | 52,754 | 22 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| 469 | Central Campus Parking Garage | 000306 | ELE | kWh | 44,664 | 44,962 | 6 | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 472 | Animal Industries | 009042 | ELE | kWh | 39,158 | 45,744 | 29 | A | A | A | A | | | | | | | | | | | | | | | | | | | | | | | | | |
| 481 | Heaton Hall | 005712 | ELE | kWh | NA | *** | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 484 | Chemistry Building | 007152 | ELE | kWh | 93,406 | * | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 484 | Chemistry Building | 007556 | ELE | kWh | NA | 15,438 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| 484 | Chemistry Building | 007557 | ELE | kWh | NA | 120,584 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 484 | Chemistry Building | 007559 | ELE | kWh | NA | 164,773 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 501 | Concrete Materials Laboratory | 005791 | ELE | kWh | NA | 5,177 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 506 | Nagle Hall | 001484 | ELE | kWh | 3,299 | 12,990 | 22 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 513 | Doherty Building | 000299 | ELE | kWh | 14,318 | 54,032 | 22 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 524 | Blocker building | 001545 | ELE | kWh | 192,772 | 212,692 | 3 | M | M | M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 549 | Haas Residence Hall | 001398 | ELE | kWh | 43,759 | * | 15 | A | A | A | A | | | | A | A | A | | | | | A | A | A | | | | | | | A | A | A | A | A | |
| 1026 | Veterinary Medicine Administration | 006053 | HHW | mBtu | NA | 621,484 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 1042 | Forest Science Laboratory Building | 006036 | ELE | kWh | 21,223 | 21,957 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1184 | Veterinary Anatomical Pathology | 001445 | ELE | kWh | NA | 51,431 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 1454 | University Apartments - The Gardens F | 006980 | ELE | kWh | NA | 21,440 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 1455 | University Apartments - The Gardens G | 006482 | ELE | kWh | NA | 19,177 | 29 | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| 1505 | Rosenthal Meat Science & Technology Center | 003627 | ELE | kWh | 108,412 | 119,979 | 3 | M | M | M | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1520 | TX School of Rural Public Health C | 005275 | ELE | kWh | 46,121 | ** | 3 | | | | | M | | | | | | | | | | M | | | | | | | | | | | | | | |
| 1525 | Nuclear Magnetic Resonance Facility | 006718 | ELE | kWh | 81,828 | * | 3 | | | | | | M | | | | | | | | | | M | | | | | | | | | | | | | |
| 1530 | Interdisciplinary Life Sciences Building | 006288 | ELE | kWh | 214,240 | * | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1590 | White Creek Apartment 1 | 008518 | CHW | mBtu | 256,148 | * | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1590 | White Creek Apartment 1 | 008522 | HHW | mBtu | 98,724 | * | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1591 | White Creek Apartment 2 | 008529 | CHW | mBtu | 235,307 | * | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1591 | White Creek Apartment 2 | 008533 | HHW | mBtu | 110,618 | * | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1607 | Allen Building | 000243 | ELE | kWh | 90,988 | * | 3 | | | | | | | | | | | | | | | | M | M | M | | | | | | | | | | | |
| 1609 | TTI Headquarters | 006495 | ELE | kWh | 54,665 | * | 2 | | | | | | | | | | | | | | | | | | | M | M | | | | | | | | | |
| 1810 | Office of the State Chemist Building | 009073 | ELE | kWh | 57,586,771 | ** | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1911 | Multi-Species Research Building | 009138 | ELE | kWh | NA | NA | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10226 | NCTM Manufacturing Building | 007652 | ELE | kWh | NA | NA | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Monthly consumption evaluated from the cumulative data is not affected by the missing data.

** See Table II-2 for the estimated consumption.

*** Consumption is not estimated because reliable consumption model is not available.

NA: Not available

II-2 Meters with Estimated Consumption for Problematic Data

During the month of February 2016, 28 meters in 25 buildings have estimated daily consumption because the recorded consumption is found to be problematic or questionable. For each of these meters, alternative consumption has been estimated using the best possible method. Table II-2 lists these meters with indications of the days with estimated data. Detailed descriptions for individual cases follow.

Table II-2 Meters with problematic data during February 2016

| Building No. | Building Name /MeterID(s) | Type | Unit | Original Monthly Consumption | Estimated Monthly Consumption | # of days | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|--------------|---|------|------|------------------------------|-------------------------------|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 405 | Lacy Hall – Dorm 6 | CHW | mBtu | 238,804 | 155,440 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420 | Milner Hall | CHW | mBtu | 163,993 | 185,335 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 441 | Krueger Residence Hall | CHW | mBtu | 718,783 | 829,647 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 442 | Dunn Residence Hall | HHW | mBtu | 417,259 | 479,659 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 447 | Aston Residence Hall | HHW | mBtu | 534,225 | 631,501 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 445 | Teague Research Center | HHW | mBtu | 29,337 | 44,953 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 517 | DPC Annex | HHW | mBtu | 218,250 | 420,206 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 457 | TAES Annex Building | HHW | mBtu | 19,688 | 37,020 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480 | Bolton Hall | HHW | mBtu | 20,992 | 47,698 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 499 | Engineering Innovation Center | HHW | mBtu | 36,225 | 40,761 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0508-1026 | Veterinary Teaching Hospital and Veterinary Medicine Administration | HHW | mBtu | 680,547 | 1,073,877 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 520 | Beutel Health Center | CHW | mBtu | 267,964 | 464,047 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | HHW | mBtu | 113,543 | 265,038 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 740 | McNew Laboratory | HHW | mBtu | 16,116 | 170,349 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1020 | Vivarium III | CHW | mBtu | 274,962 | 164,997 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | HHW | mBtu | 3,667 | 120,103 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1085 | Veterinary Small Animal Hospital | HHW | mBtu | 429,449 | 538,824 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1146 | Biological Control Facility | CHW | mBtu | 626,593 | 128,575 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1156 | Physical Plant Administration & Shops | CHW | mBtu | 360,856 | 104,907 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1509 | Medical Sciences Library | HHW | mBtu | 107,143 | 238,863 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1512 | Southern Crop Improvement Greenhouse | ELE | kWh | 148,793 | 83,073 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1519 | TX School of Rural Public Health B | ELE | kWh | 96,953 | 46,121 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1520 | TX School of Rural Public Health C | ELE | kWh | 46,121 | 96,953 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1554 | Reed Arena | ELE | kWh | 14 | 561 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1559 | West Campus Parking Garage | HHW | mBtu | 14,198 | 24,002 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1810 | Office of the State Chemist Building | ELE | kWh | ** | 57,587 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1900 | Texas Institute for Genomic Medicine | HHW | mBtu | 273,958 | 346,773 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1904 | Texas A&M Institute for Preclinical Studies A | HHW | mBtu | 709,129 | 864,688 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NA: Not available

** See Table II-1 for the original consumption.

Notes: The colored cells means the consumption for the day appears to be problematic. The letter in the colored cell indicates the method for estimation. M: model, F: multiplication factor, L: linear interpolation, A: average, and C: correction of the reset cumulative reading

Lacy Hall – Dorm 6 (TAMU Bldg# 405)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|----------------------|
| CHW | 007918 | 3 | 2/10/2016 – 2/12/2016 | Linear interpolation |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|-----------------------|
| CHW | The consumption increased for a short period. | 2/10/2016 – 2/12/2016 |

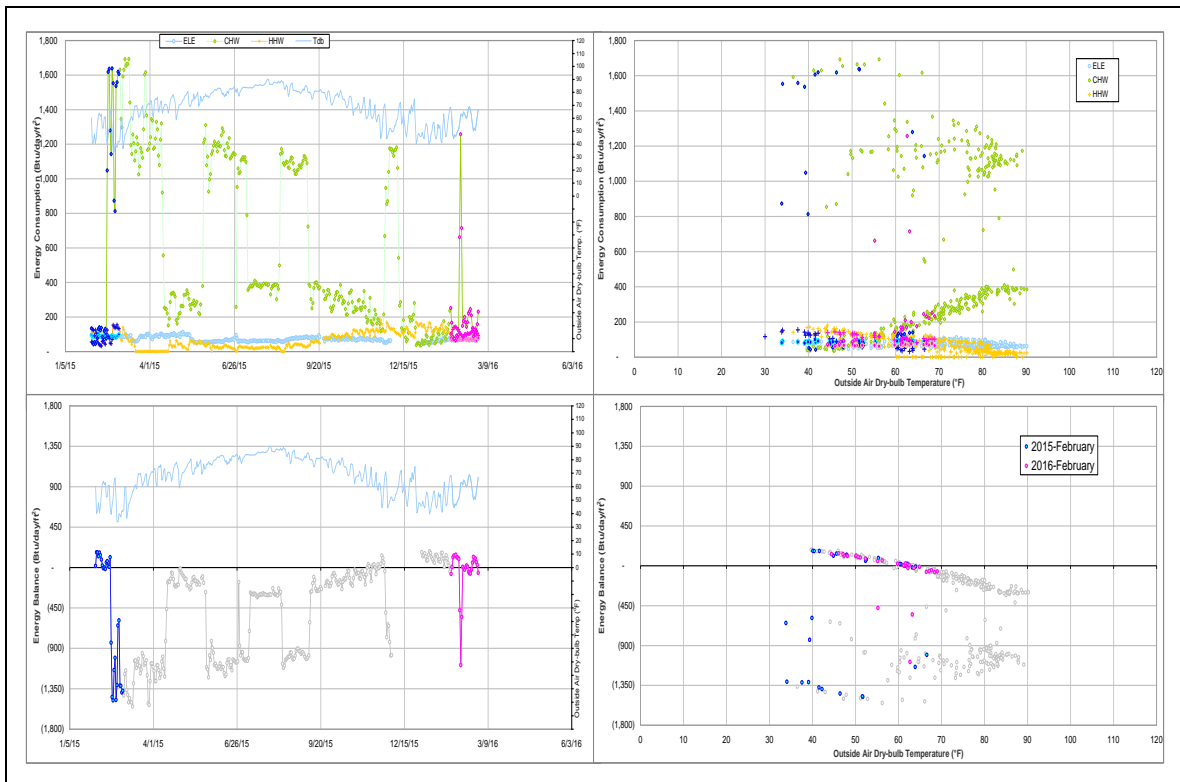
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|-----------|-------------|
| CHW | 002218 | 2/10/2016 – 2/12/2016 | Flow Rate | Increased |

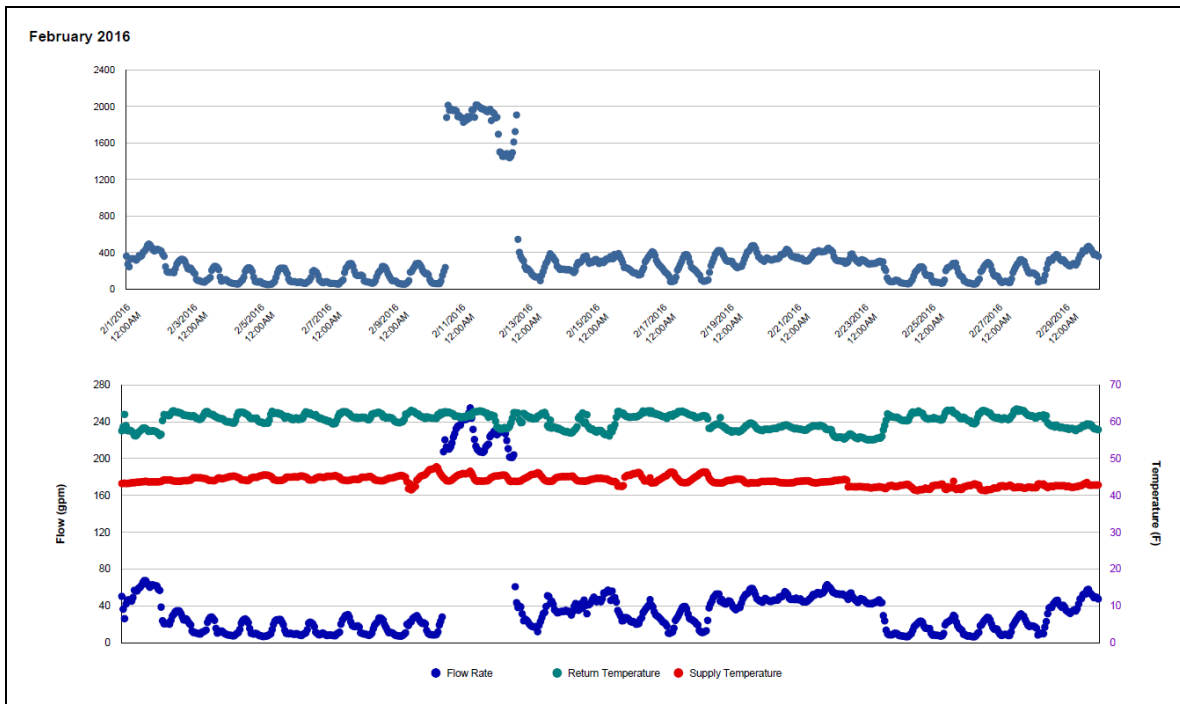
Quantitative descriptions and comments

The CHW consumption suddenly increased during 2/10/2016-2/12/2016, as the CHW flow rate increased by 200 gpm. The consumption was estimated by linear interpolation.

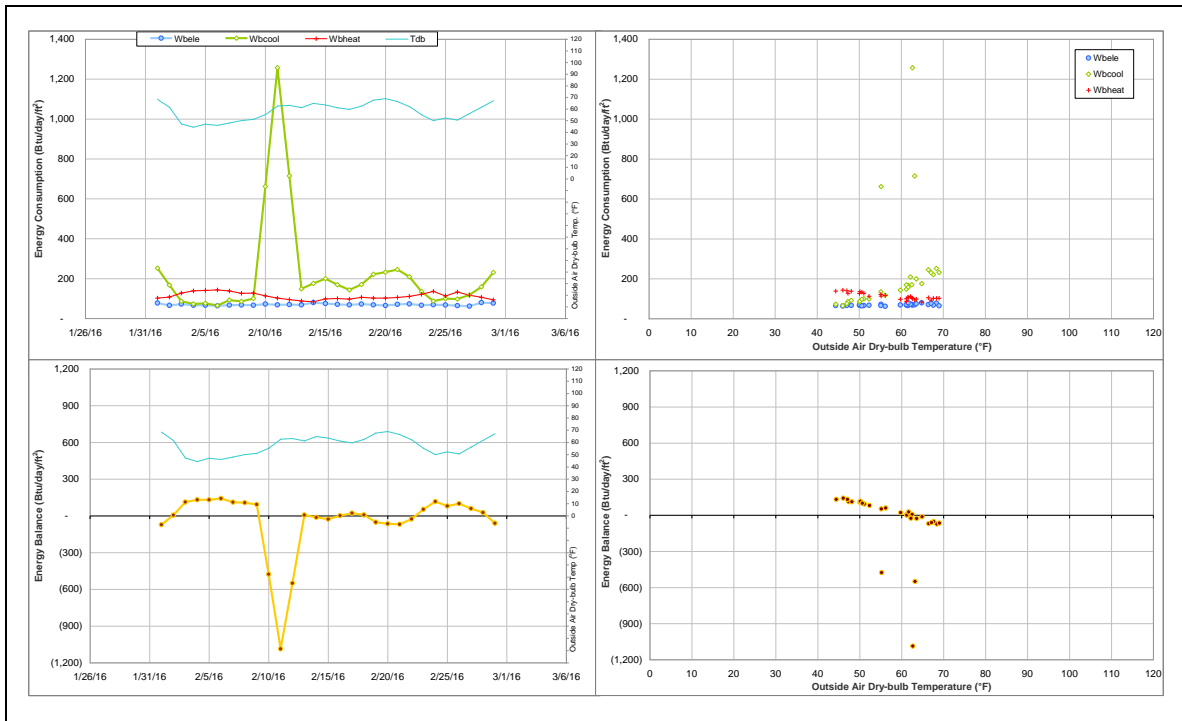
Explanatory Figure: 13 months energy balance plot with original data



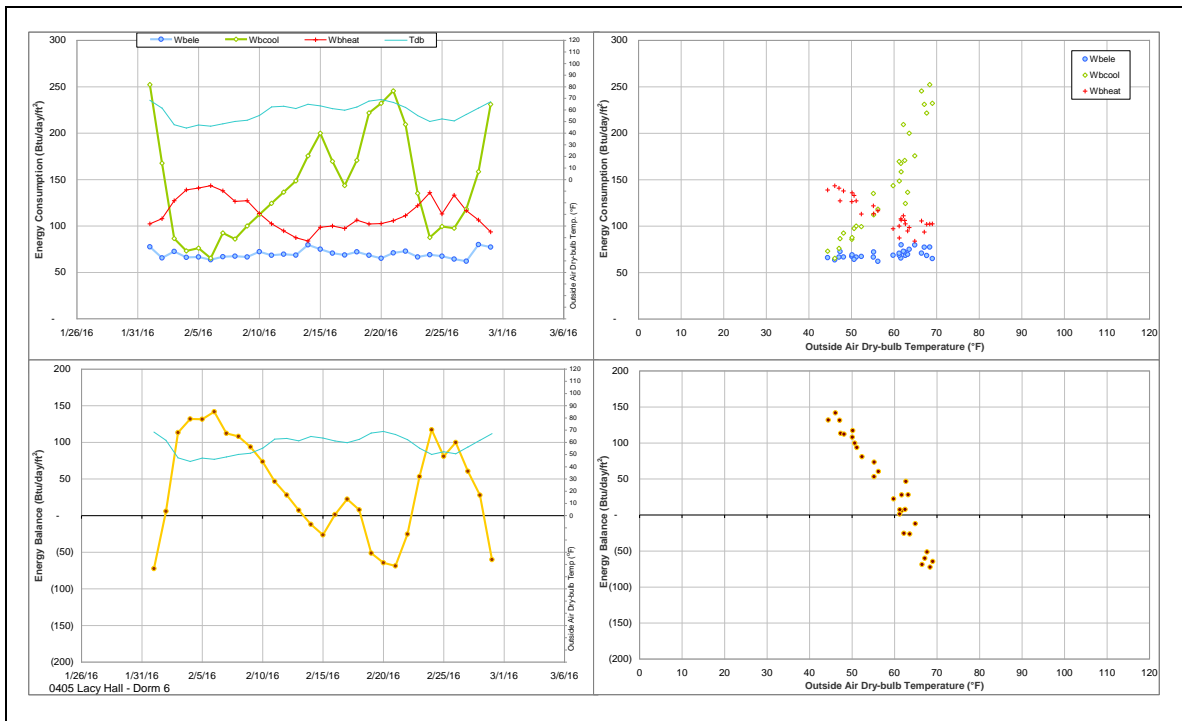
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW meter during February 2016)



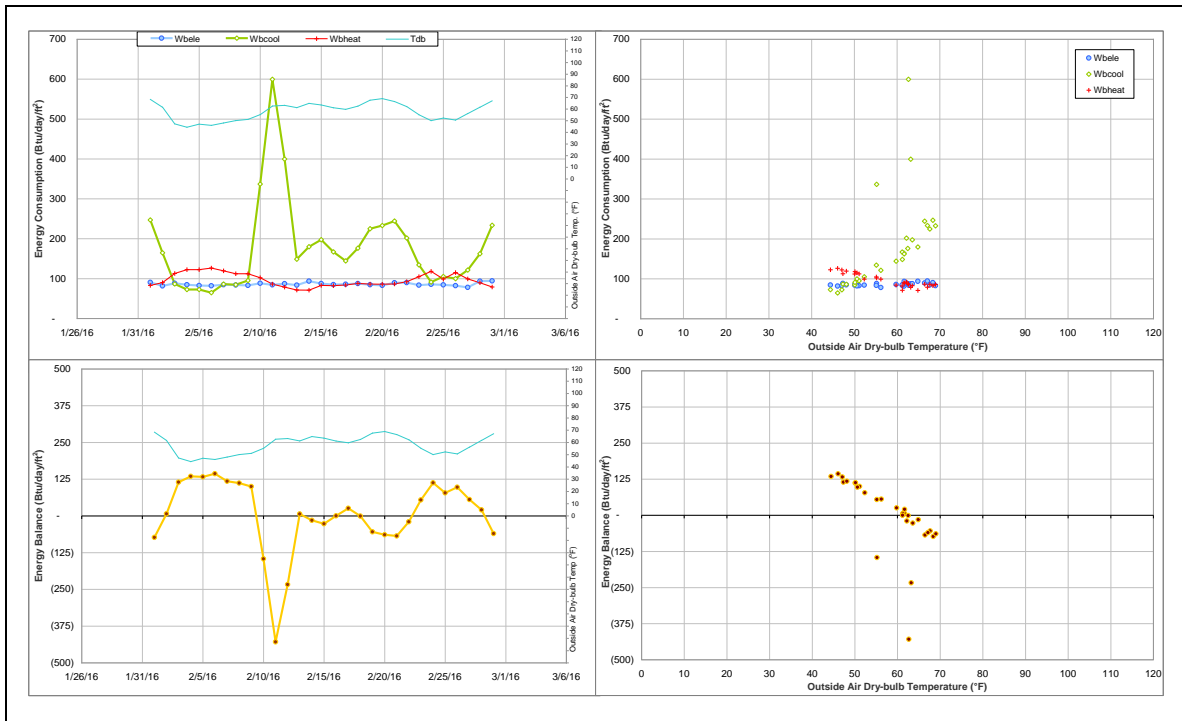
Energy balance plot using the original data for the month of analysis for Lacy Hall.
Missing data have been filled in, if any.



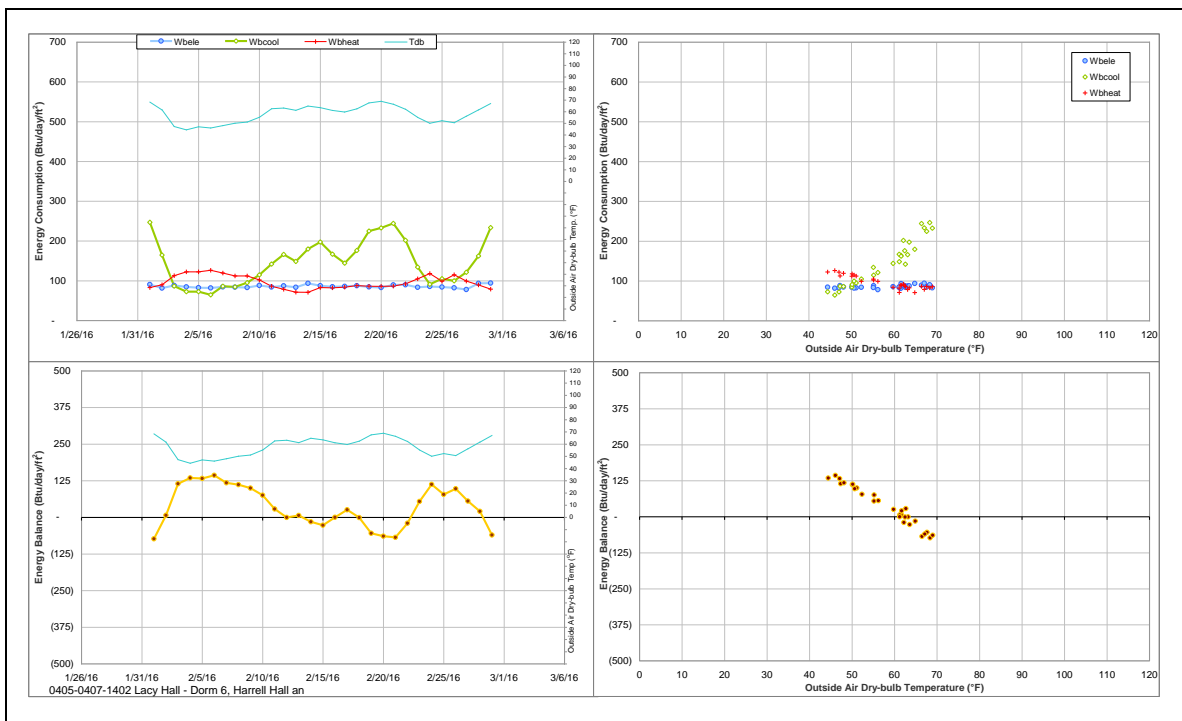
Energy balance plot using the estimated data for the month of analysis for Lacy Hall.



Energy balance plot using the original data for the month of analysis for Lacy Hall, Harrell Hall and Leadership Learning Center. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis for Lacy Hall, Harrell Hall and Leadership Learning Center.



Milner Hall (TAMU Bldg# 420)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|-------------------|
| CHW | 009145 | 3 | 2/27/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|---------------------|
| CHW | The consumption level has decreased suddenly. | 2/27/2016 – ongoing |

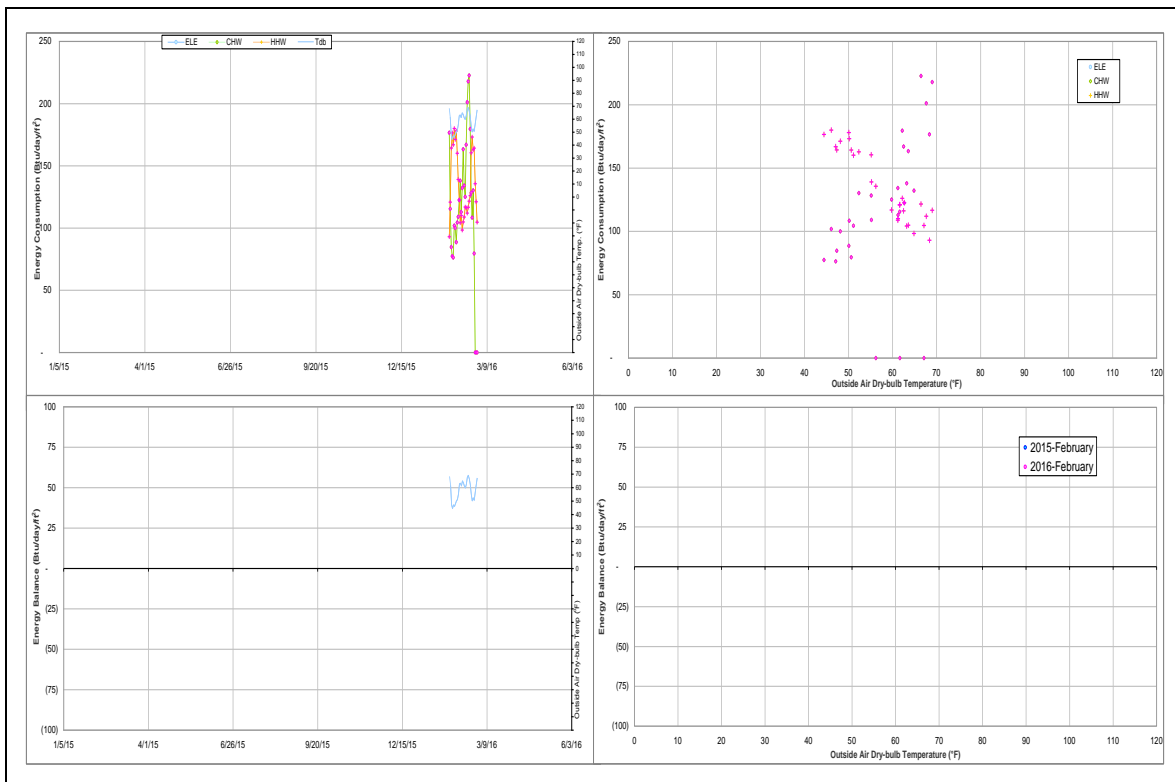
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|---------------------|-----------|-------------|
| CHW | 009145 | 2/27/2016 – ongoing | Flow Rate | zero |

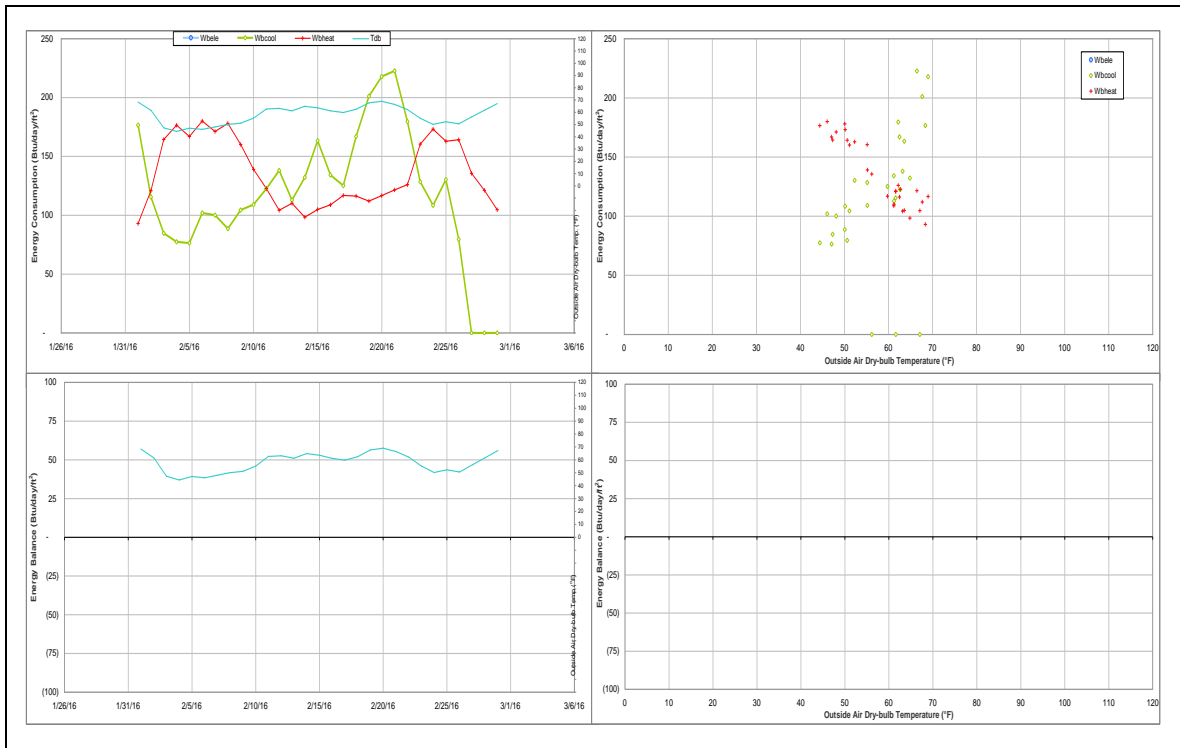
Quantitative descriptions and comments

The CHW consumption decreased to zero since 2/27/2016 due to zero reading of flow rate. The consumption was estimated by a temporary model.

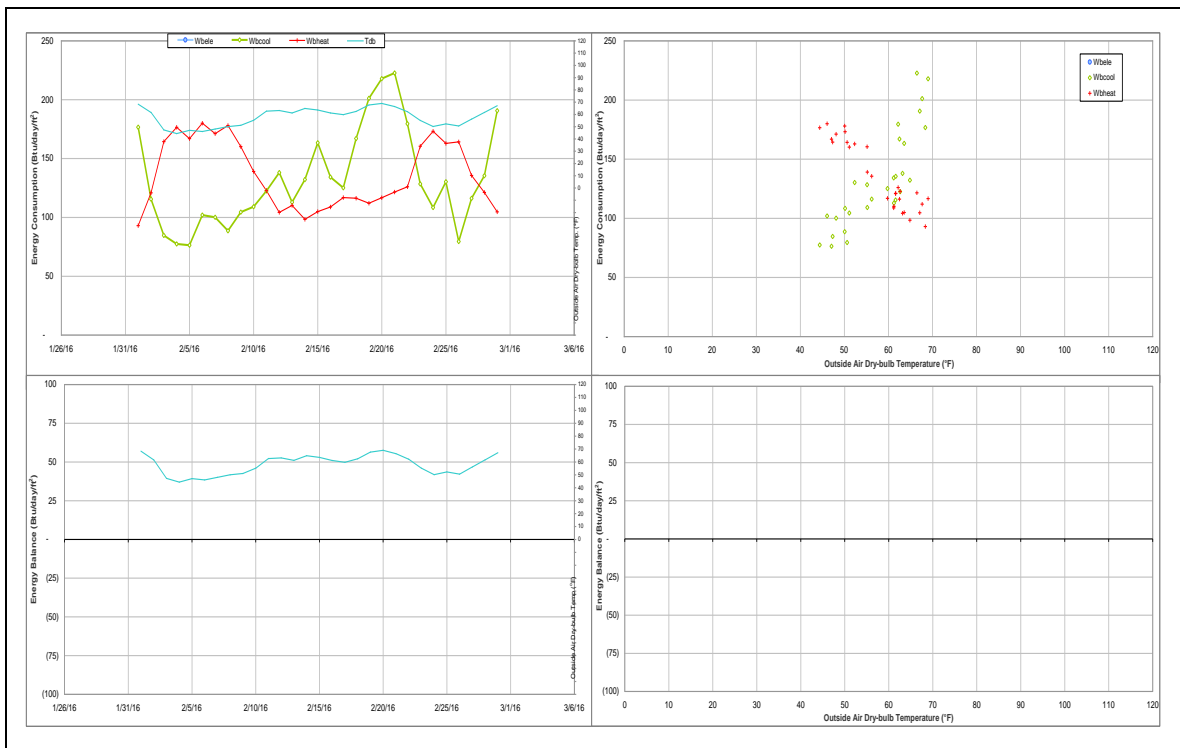
Explanatory Figure: 13 months energy balance plot with original data



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Krueger Residence Hall (TAMU Bldg# 441)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|----------------------|----------------------|
| CHW | 002504 | 7 | 2/6/2016 – 2/12/2016 | Linear interpolation |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|----------------------|
| CHW | The consumption dropped for a short period. | 2/6/2016 – 2/12/2016 |

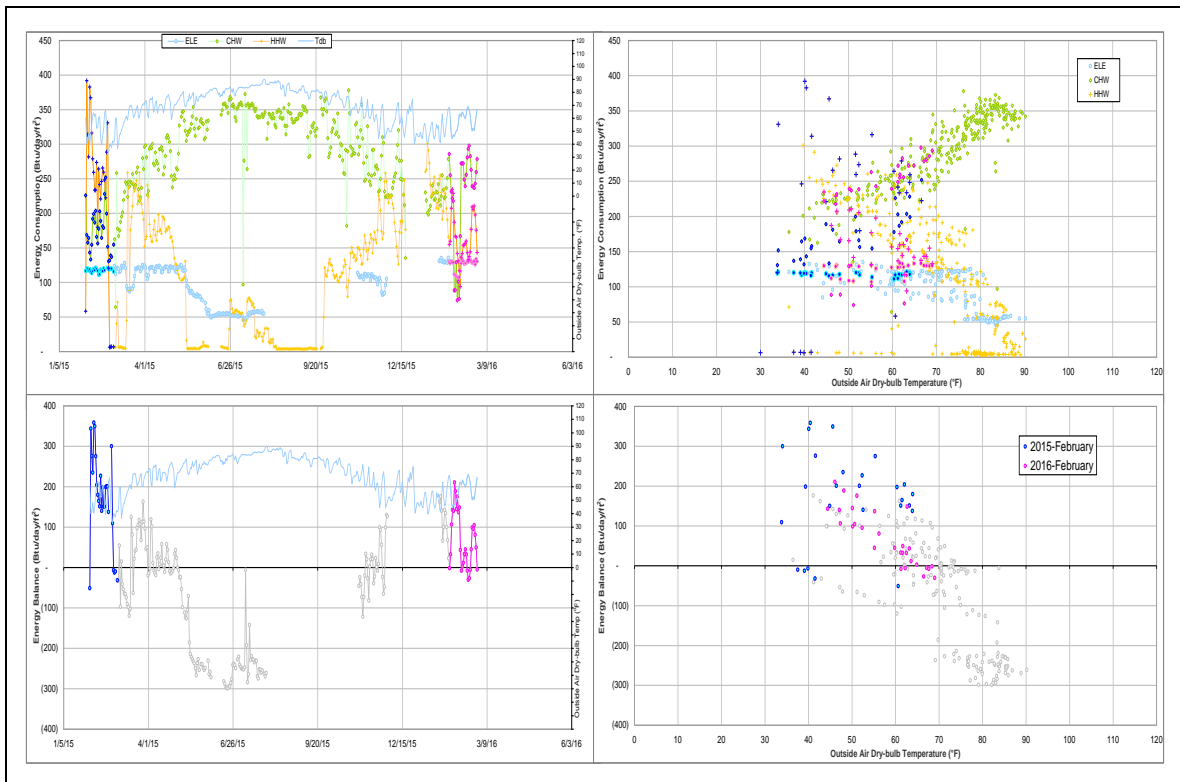
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|----------------------|-----------|-------------|
| CHW | 002504 | 2/6/2016 – 2/12/2016 | Flow Rate | Decreased |

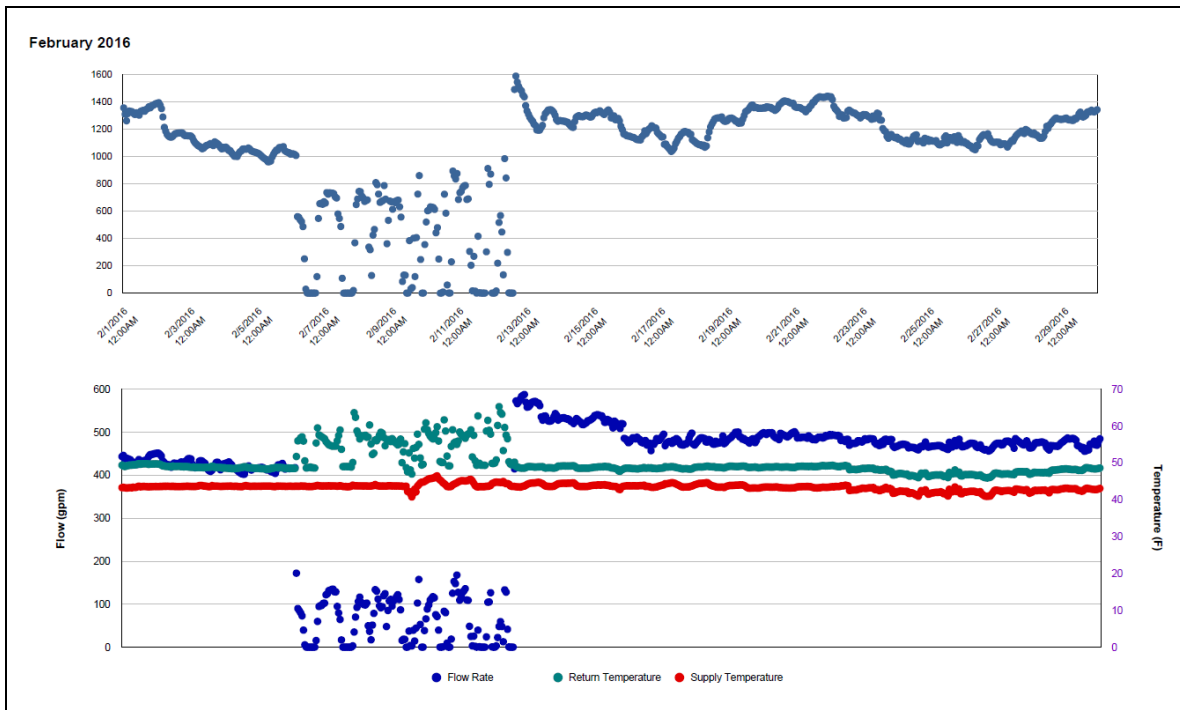
Quantitative descriptions and comments

The CHW consumption suddenly decreased during 2/6/2016-2/12/2016, as the CHW flow rate decreased by 350 gpm. The consumption was estimated by linear interpolation.

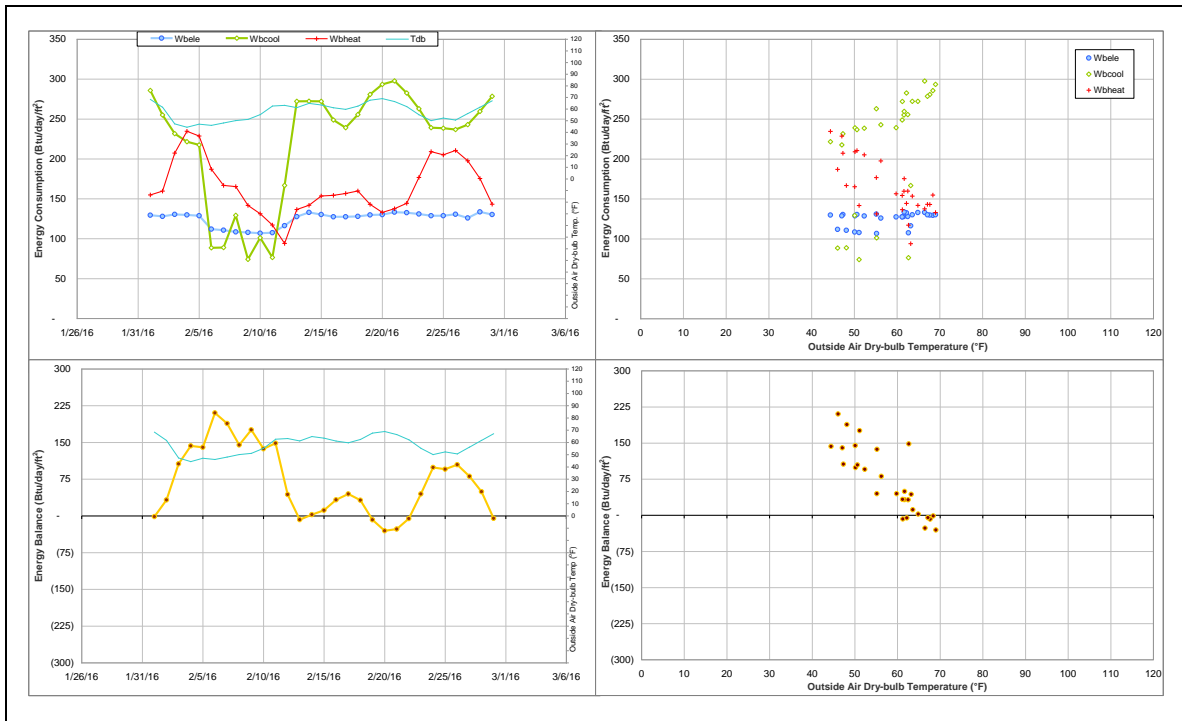
Explanatory Figure: 13 months energy balance plot with original data



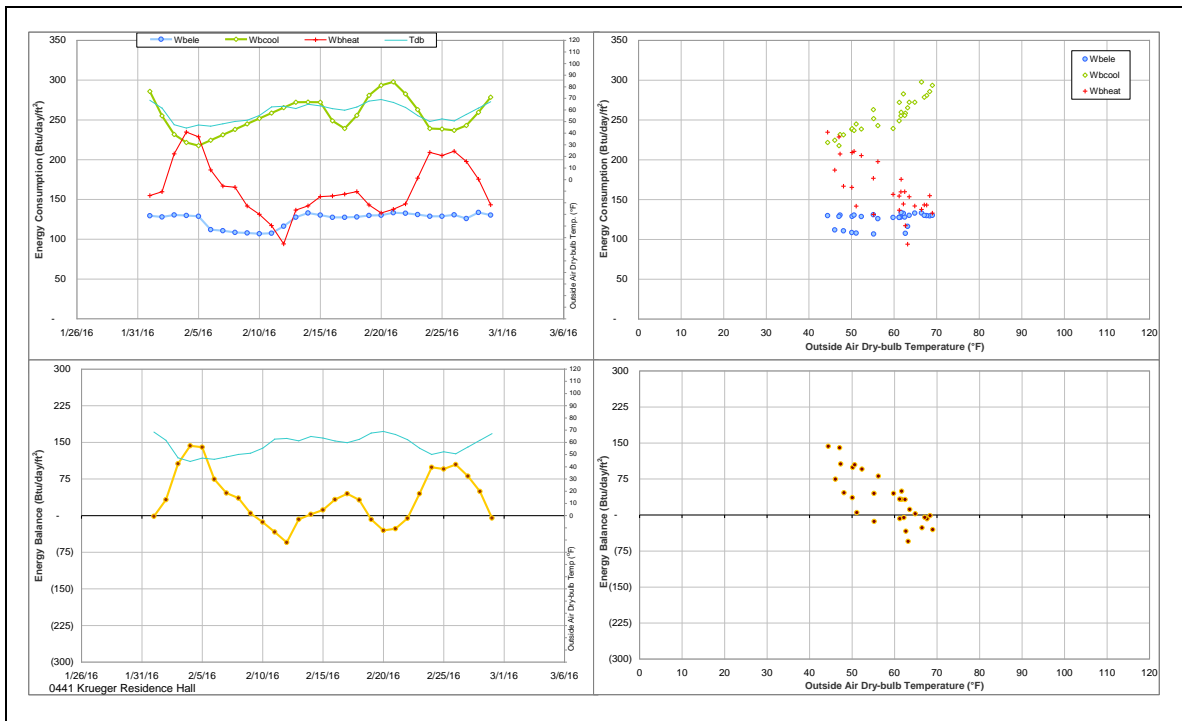
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Dunn Residence Hall (TAMU Bldg #442)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|---------------------|-------------------|
| HHW | 002515 | 5 | 2/1/2016 – 2/5/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|----------------------|
| HHW | The consumption level is lower than the level during the past year. | 8/12/2015 – 2/5/2016 |

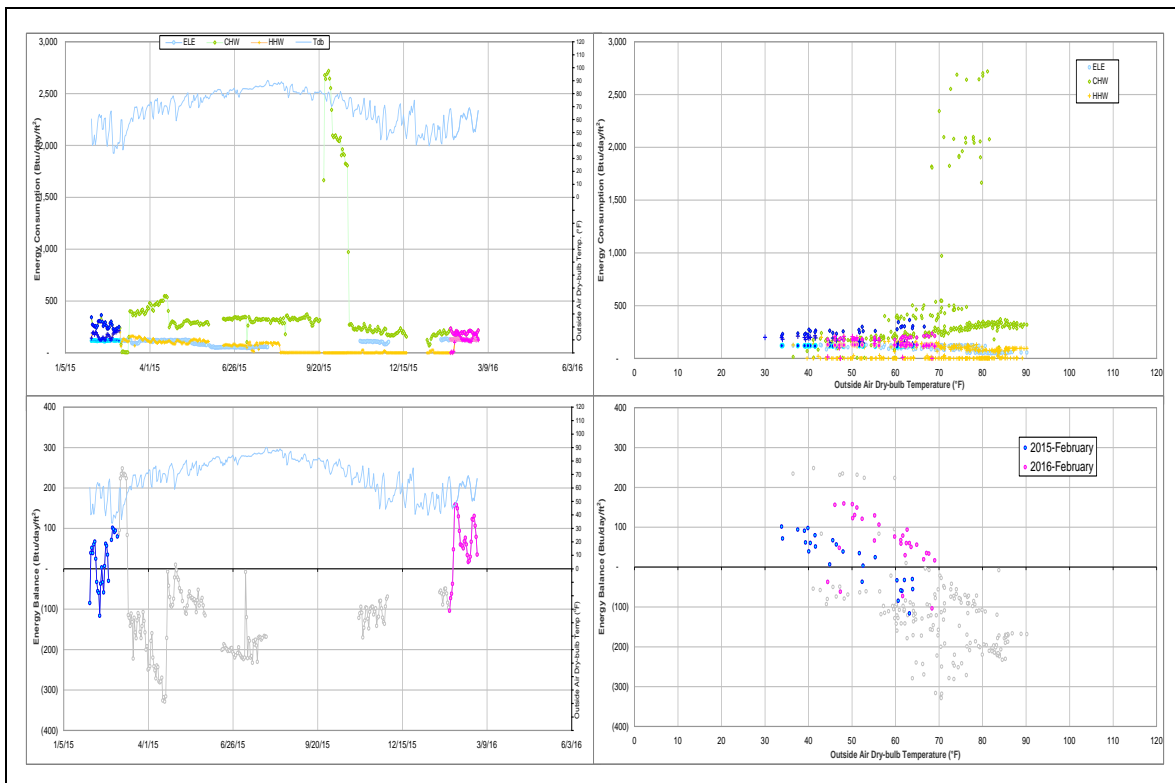
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|----------------------|---------|-------------|
| HHW | 002515 | 11/5/2015 – 2/5/2016 | Delta T | Negative |

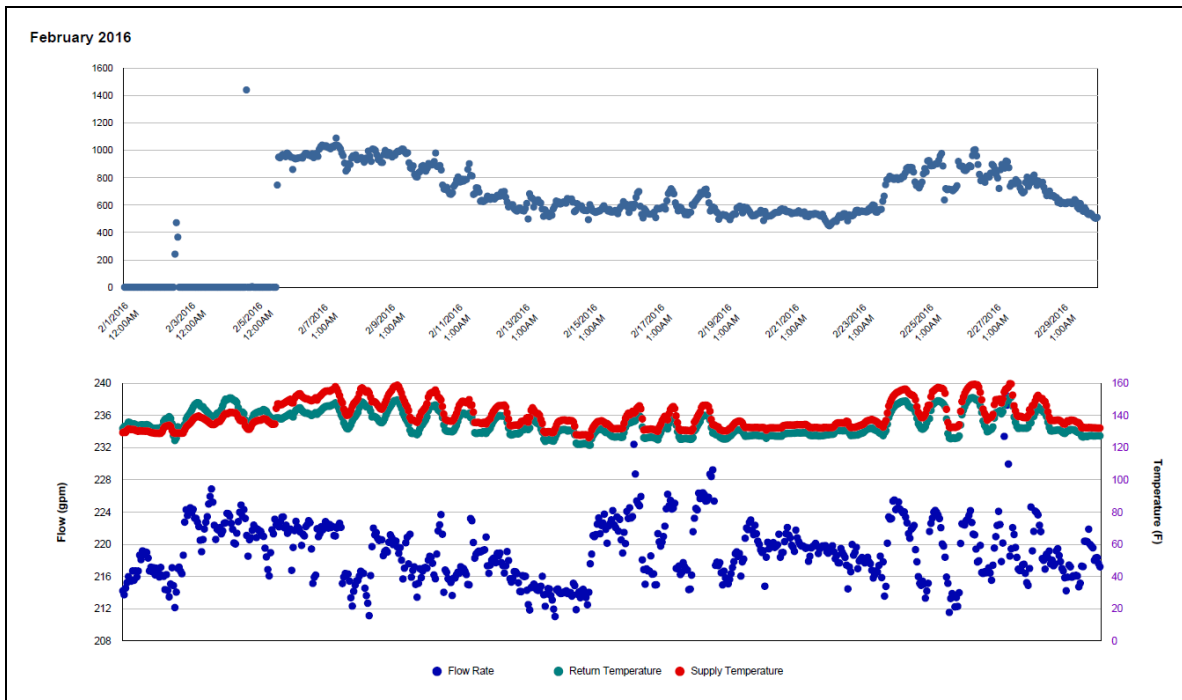
Quantitative descriptions and comments

The HHW consumption was very low (nearly zero) since 8/12/2015, due to either low flow rate or faulty delta T. During 11/5/2015-2/5/2016, the supply temperature was lower than the return temperature most time. On 2/6/2016, the problem of negative delta T was fixed. The consumption was estimated by a model.

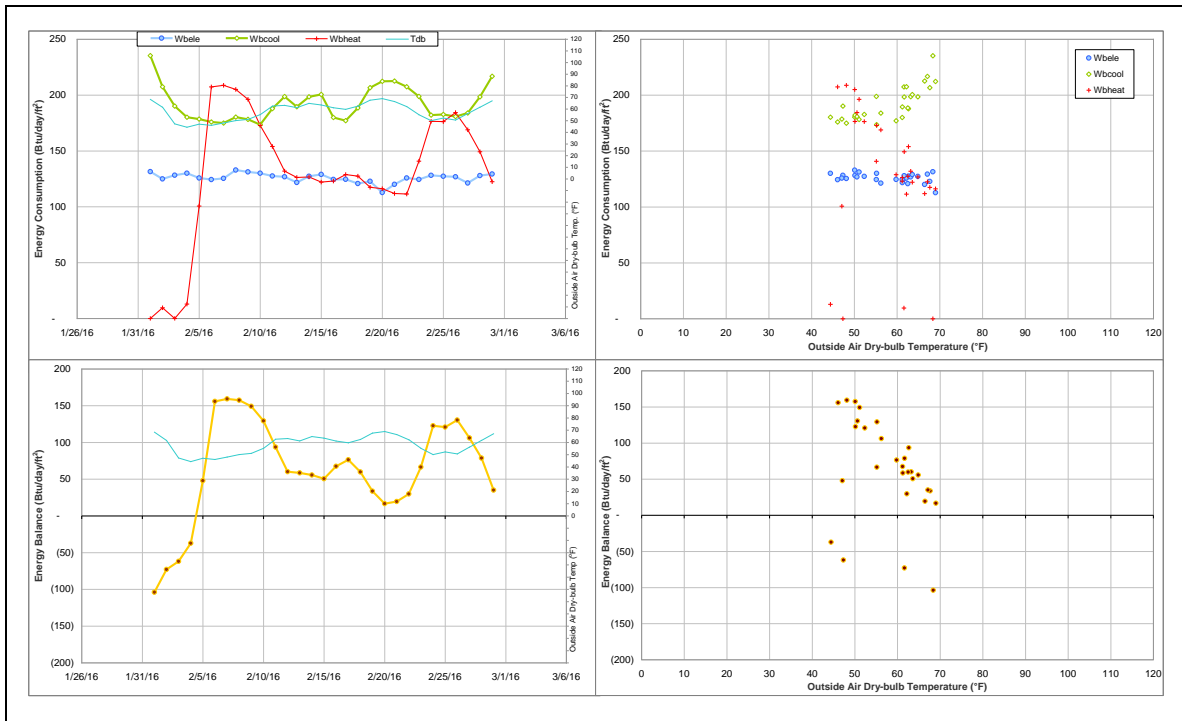
Explanatory Figure: 13 months energy balance plot with original data.



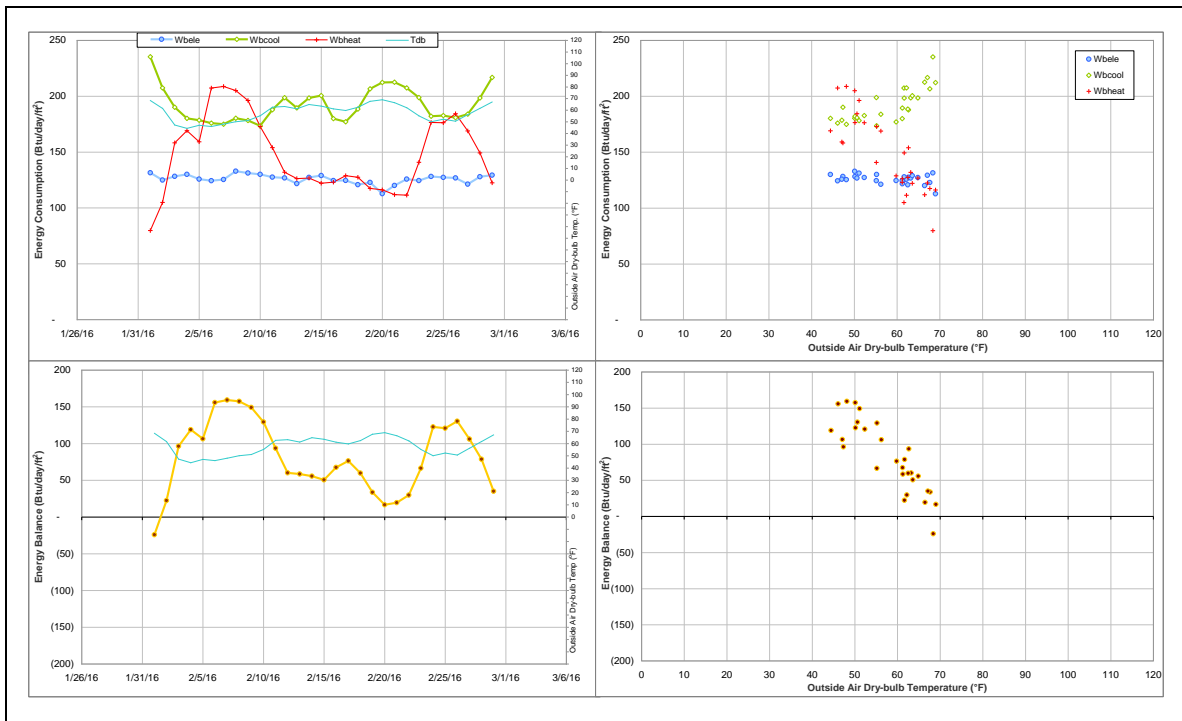
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Aston Residence Hall (TAMU Bldg #447)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|---------------------|-------------------|
| HHW | 002470 | 5 | 2/1/2016 – 2/5/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|----------------------|
| HHW | The consumption level has decreased suddenly. | 9/25/2015 – 2/5/2016 |

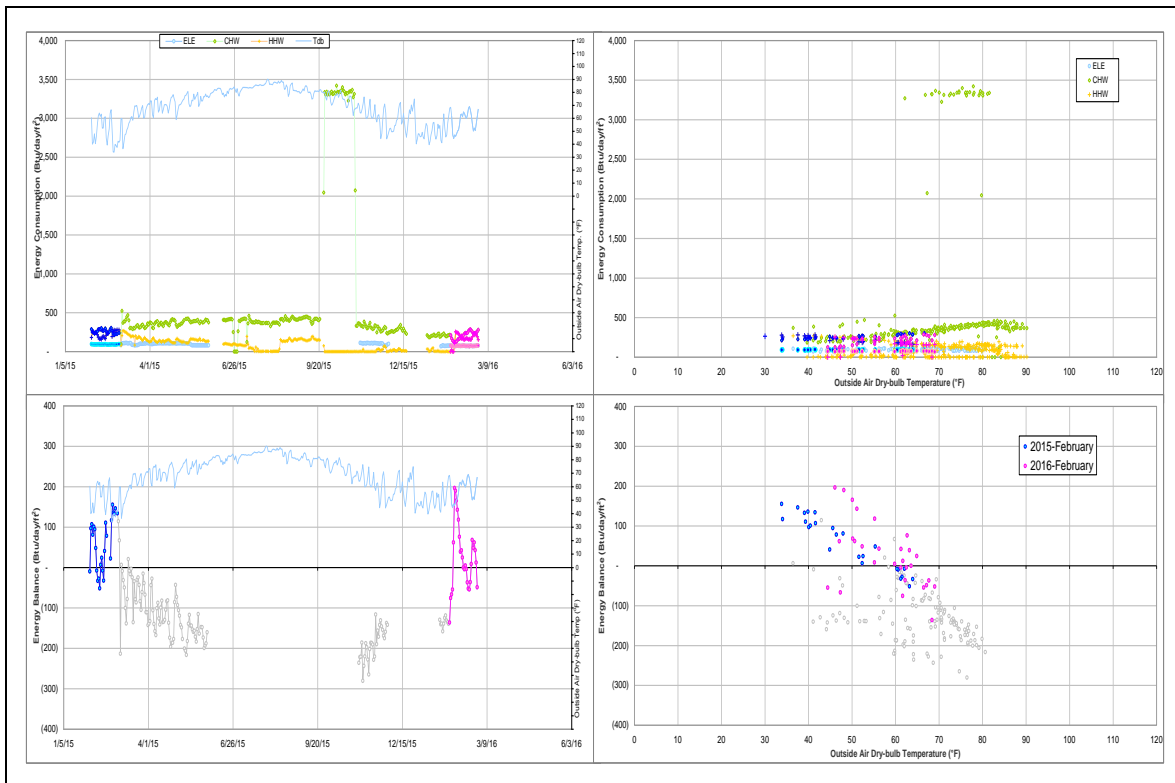
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|---------|-------------|
| HHW | 002470 | 10/20/2015 – 2/5/2016 | Delta T | Negative |

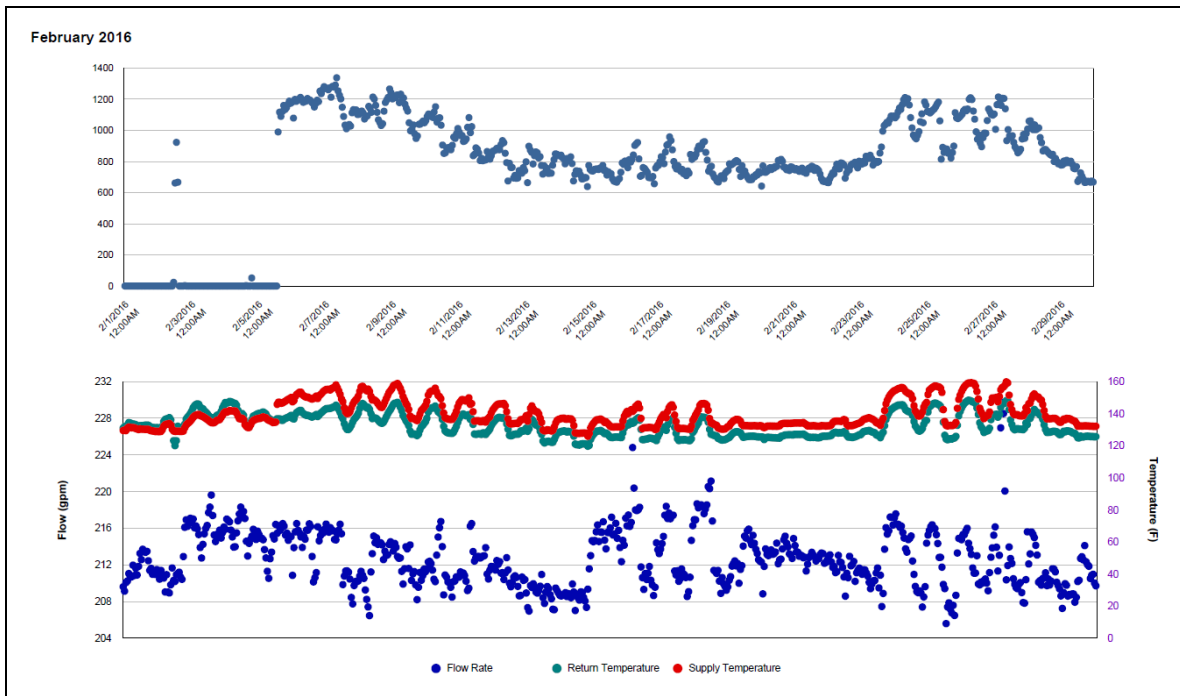
Quantitative descriptions and comments

The HHW consumption suddenly dropped to zero since 9/25/2015, as the supply temperature reading was constant during 9/25/2015-10/19/2015 and the delta T was frequently negative during 10/20/2015-2/5/2016. On 2/6/2016, the problem of negative delta T was fixed. The consumption was estimated by a model.

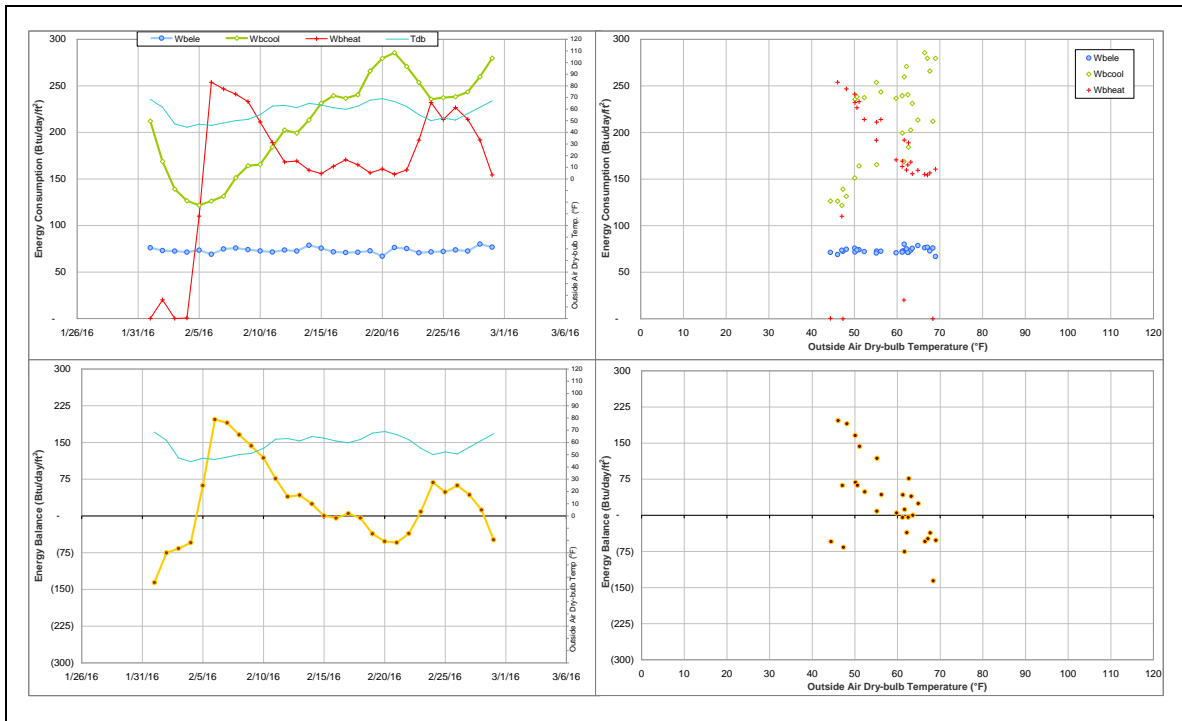
Explanatory Figure: 13 months energy balance plot with original data.



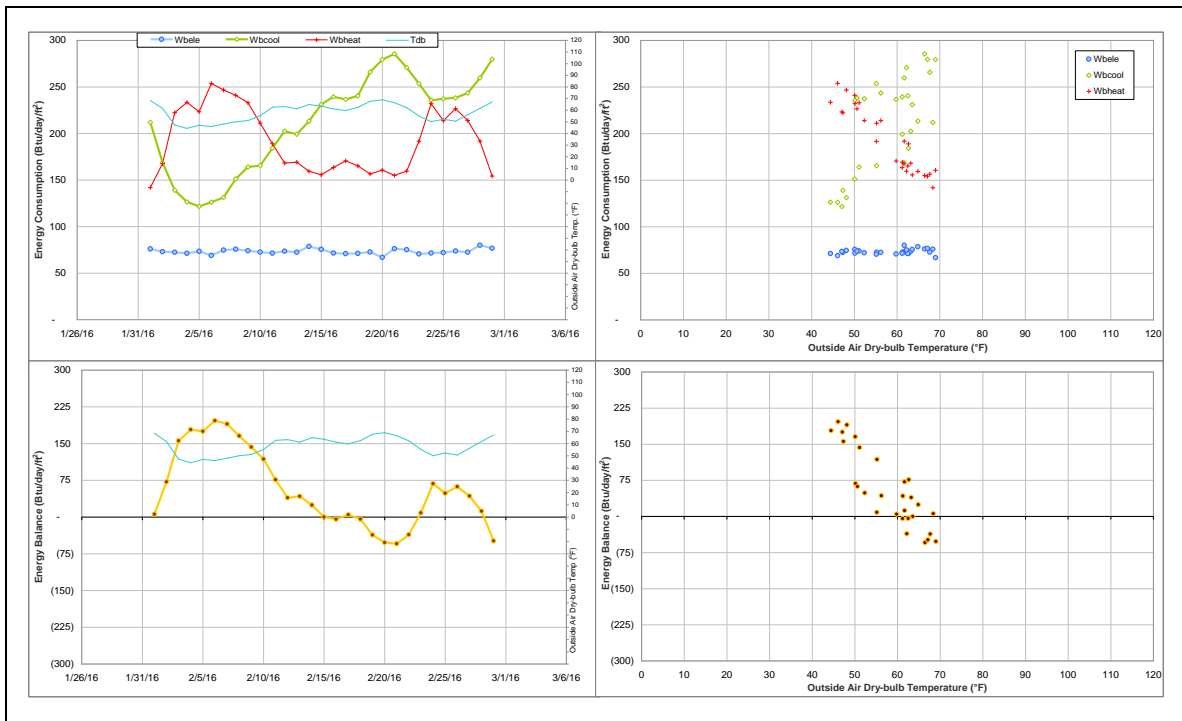
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Teague Research Center (TAMU Bldg #445)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|-------------------|
| HHW | 006415 | 14 | 2/16/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|-----------------------|
| HHW | The consumption level has decreased suddenly. | 2/16/2016 – 2/29/2016 |

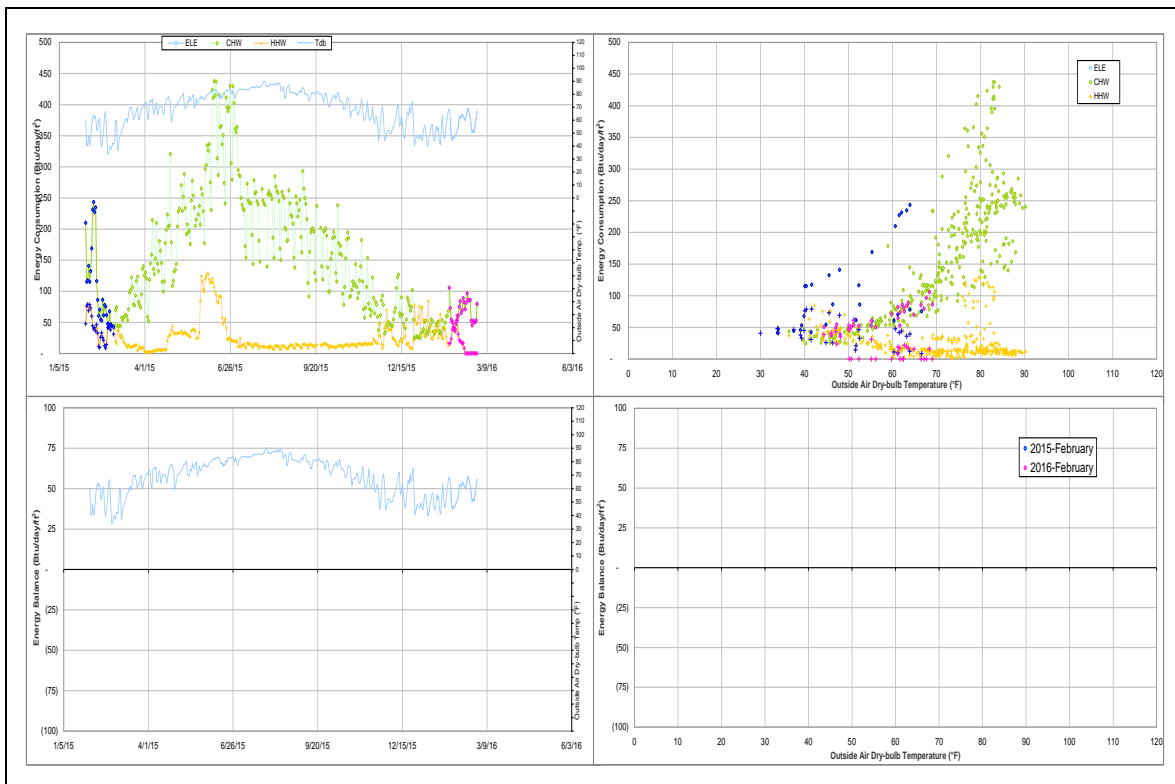
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|------|-------------|
| HHW | 006415 | 2/16/2016 – 2/29/2016 | Flow | Zero |

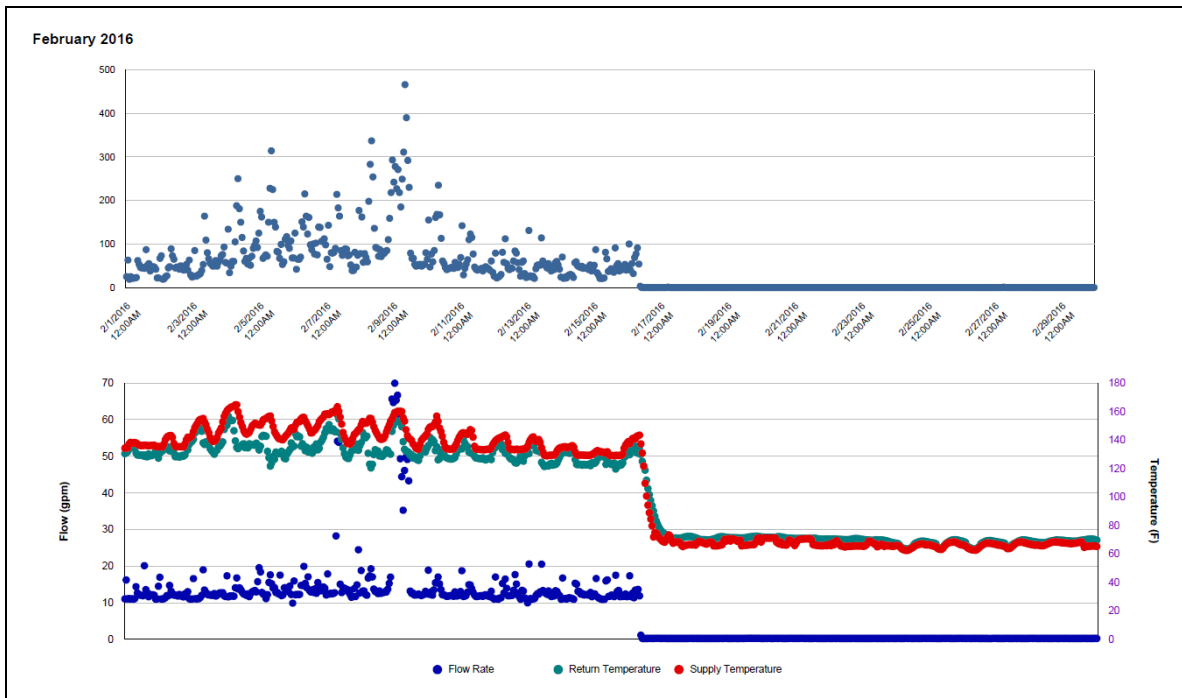
Quantitative descriptions and comments

The HHW consumption decreased to nearly zero since 2/16/2016, as the HHW flow rate decreased to zero. The consumption was estimated by a model.

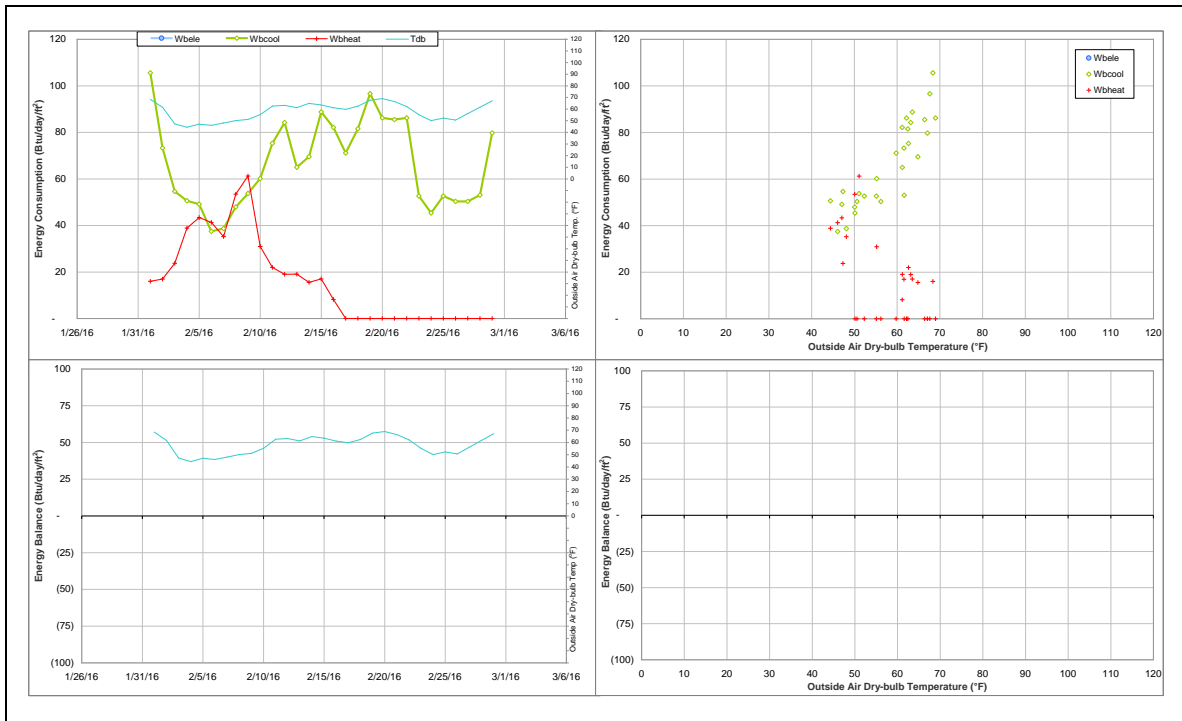
Explanatory Figure: 13 months energy balance plot with original data.



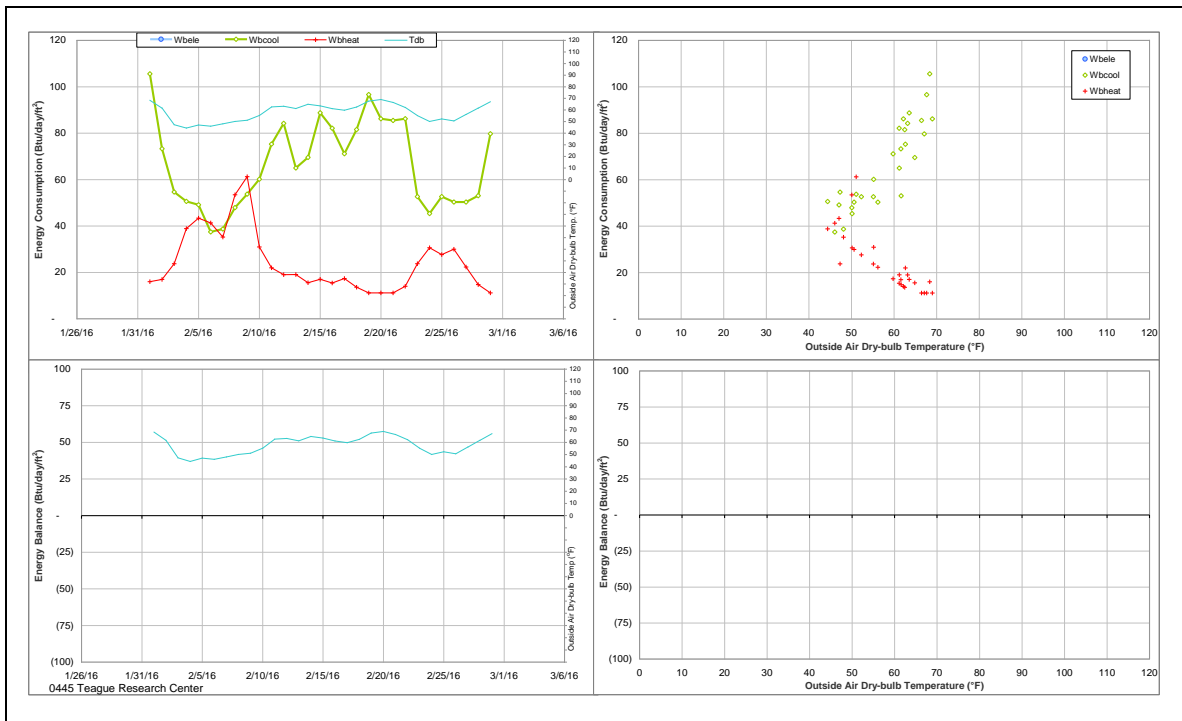
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



DPC Annex (TAMU Bldg #517)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|-------------------|
| HHW | 006567 | 14 | 2/16/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|-----------------------|
| HHW | The consumption level has decreased suddenly. | 2/16/2016 – 2/29/2016 |

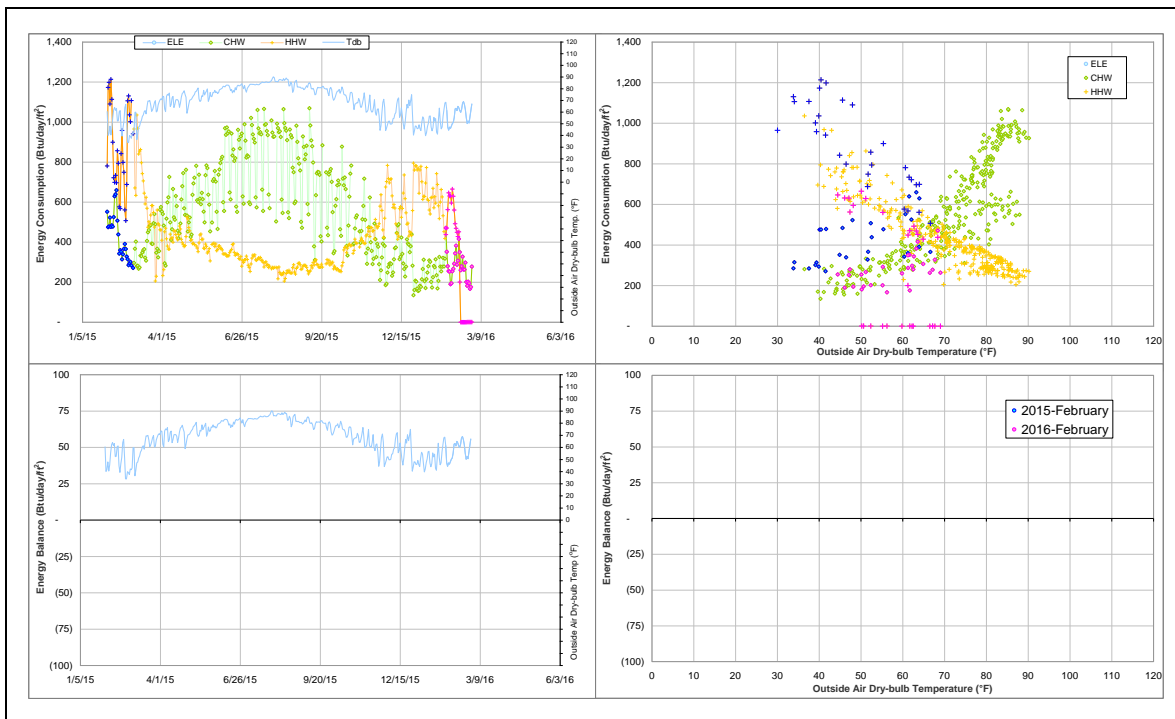
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|------|-------------|
| HHW | 006567 | 2/16/2016 – 2/29/2016 | Flow | Zero |

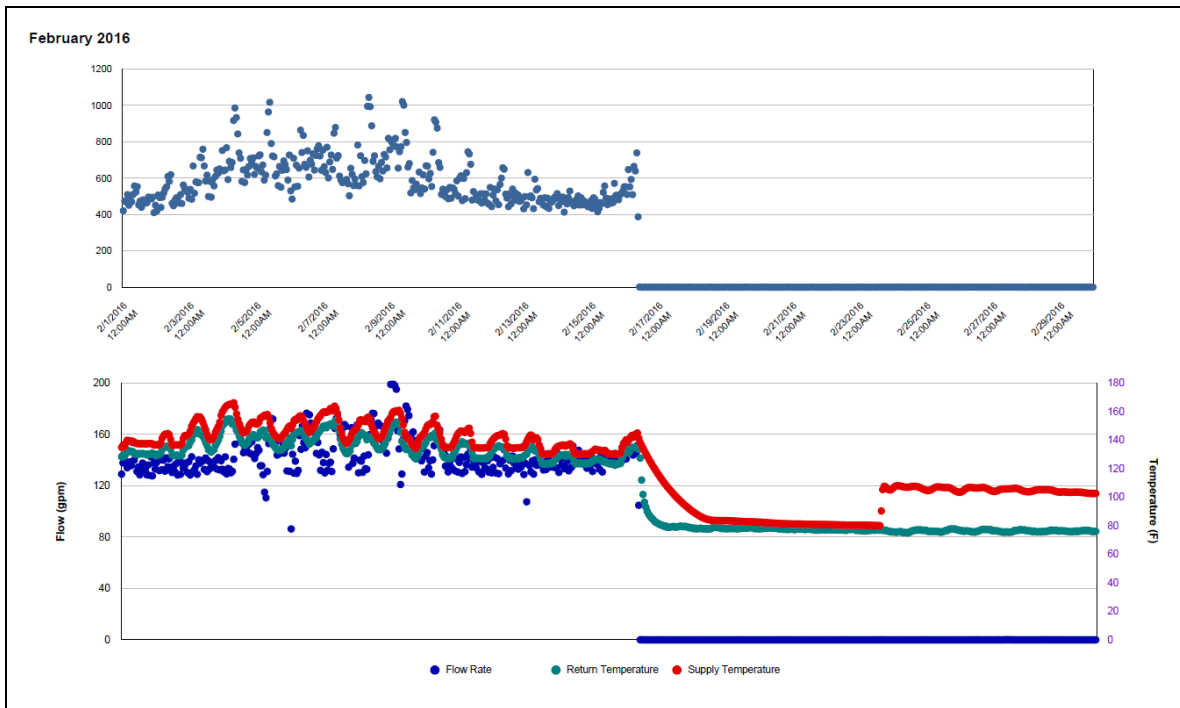
Quantitative descriptions and comments

The HHW consumption decreased to nearly zero since 2/16/2016, as the HHW flow rate decreased to zero. The consumption was estimated by a model.

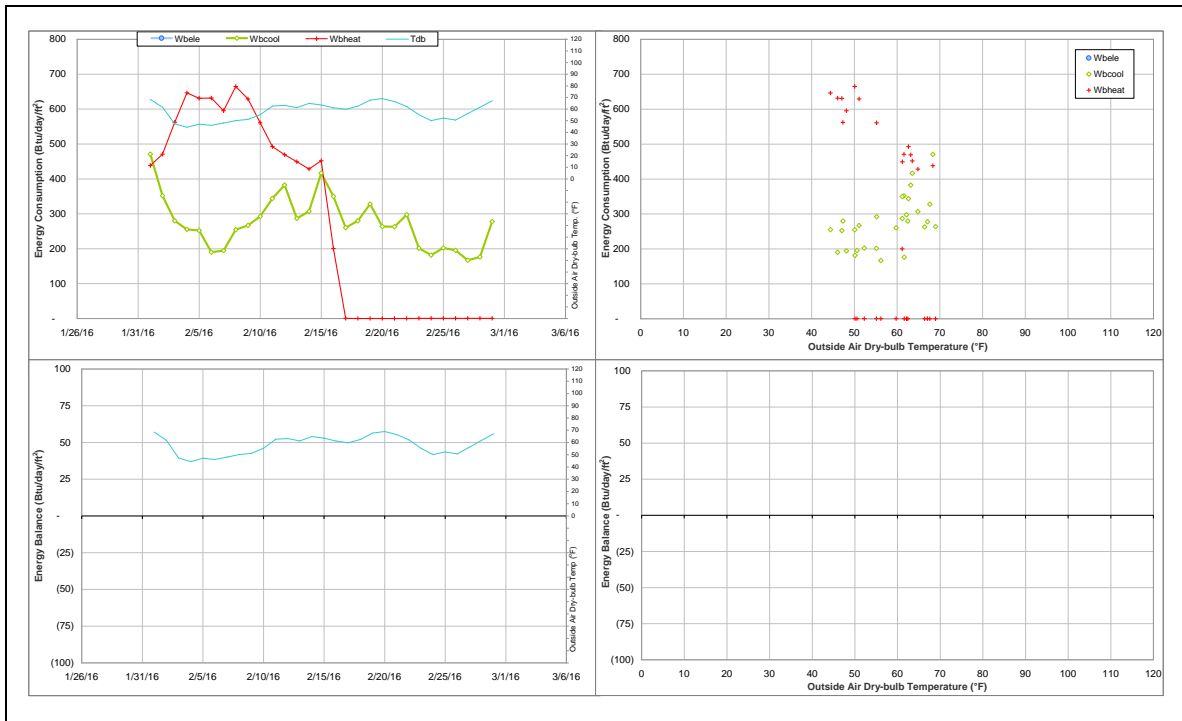
Explanatory Figure: 13 months energy balance plot with original data.



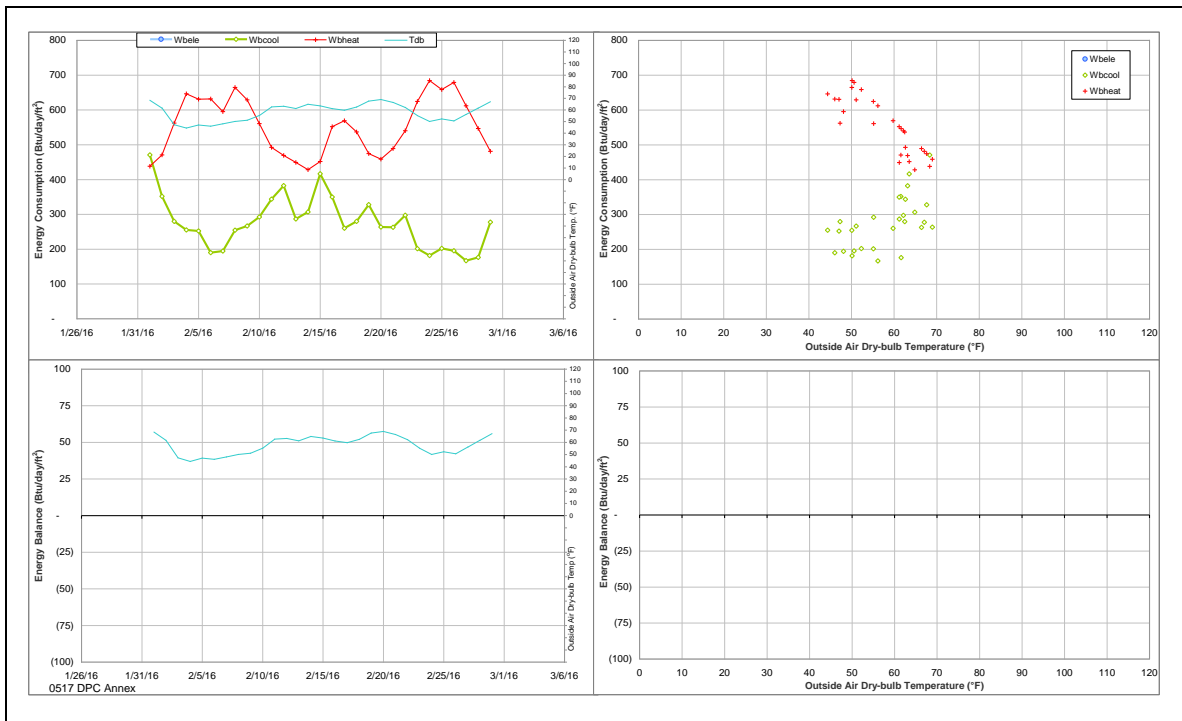
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



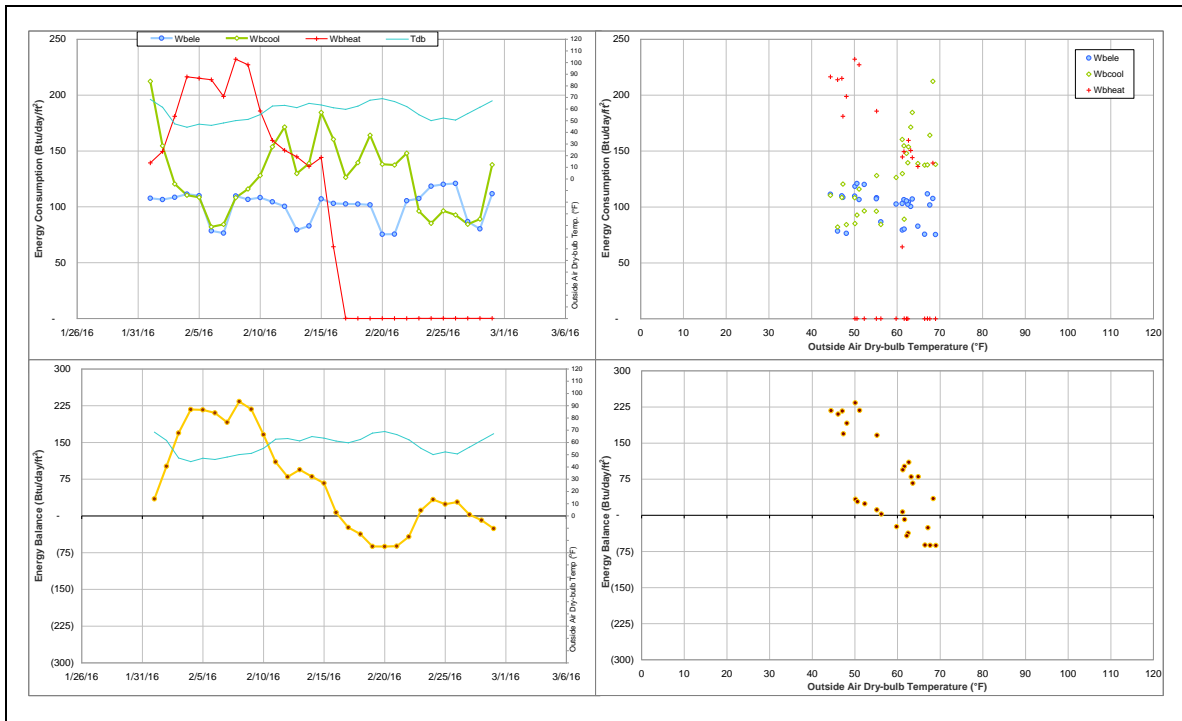
Energy balance plot using the original data for the month of analysis for DPC Annex. Missing data have been filled in, if any.



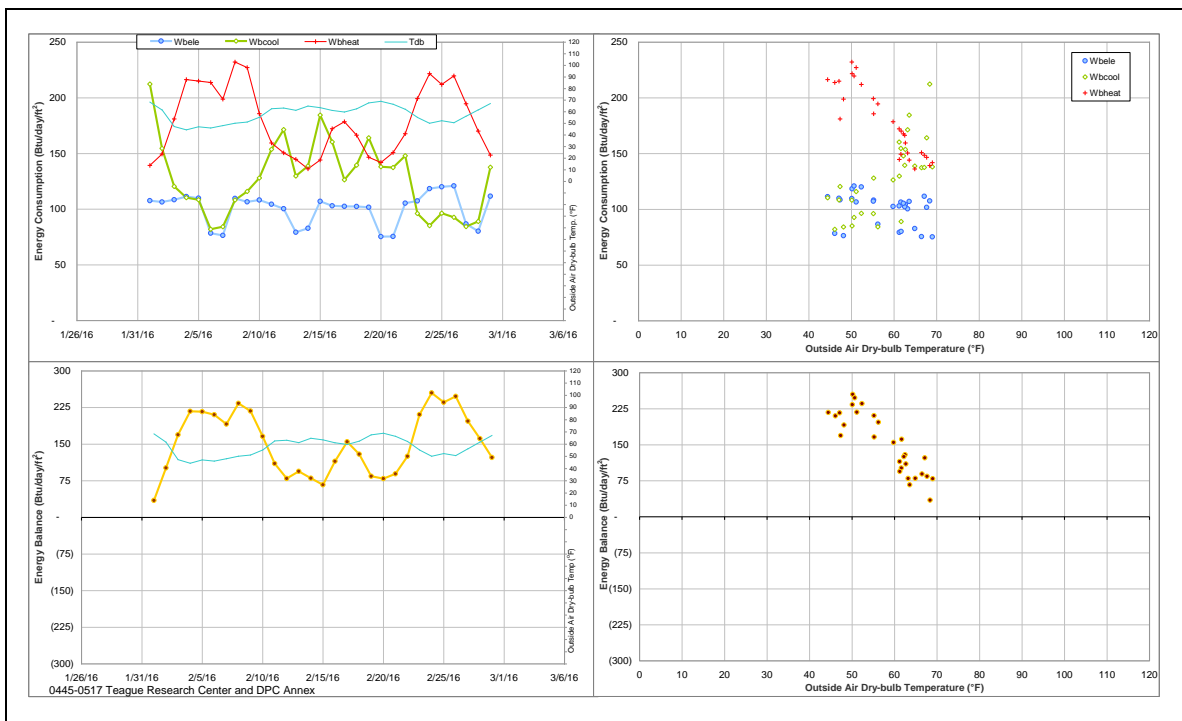
Energy balance plot using the estimated data for the month of analysis for DPC Annex.



Energy balance plot using the original data for the month of analysis for Teague Research Center and DPC Annex. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis for Teague Research Center and DPC Annex.



TAES Annex Building (TAMU Bldg #457)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|-------------------|
| HHW | 005917 | 14 | 2/16/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|-----------------------|
| HHW | The consumption level has decreased suddenly. | 2/16/2016 – 2/29/2016 |

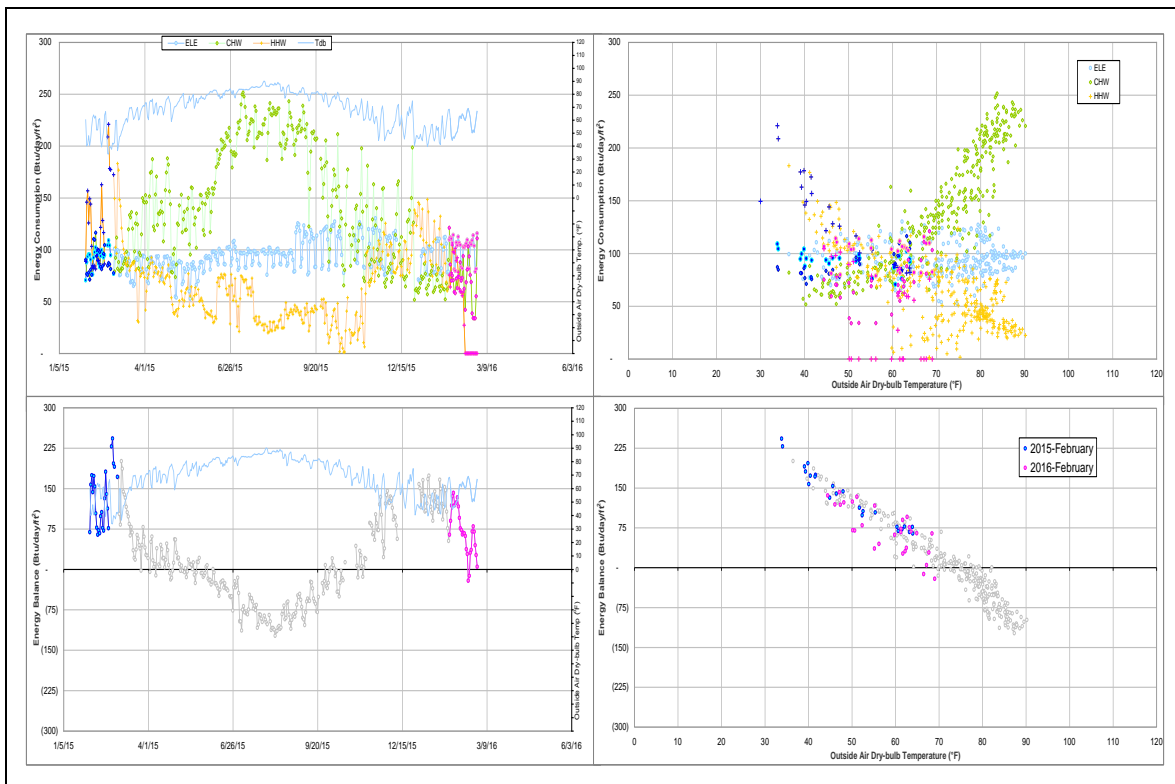
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|------------------|-------------|
| HHW | 005917 | 2/16/2016 – 2/29/2016 | Flow and delta T | Decreased |

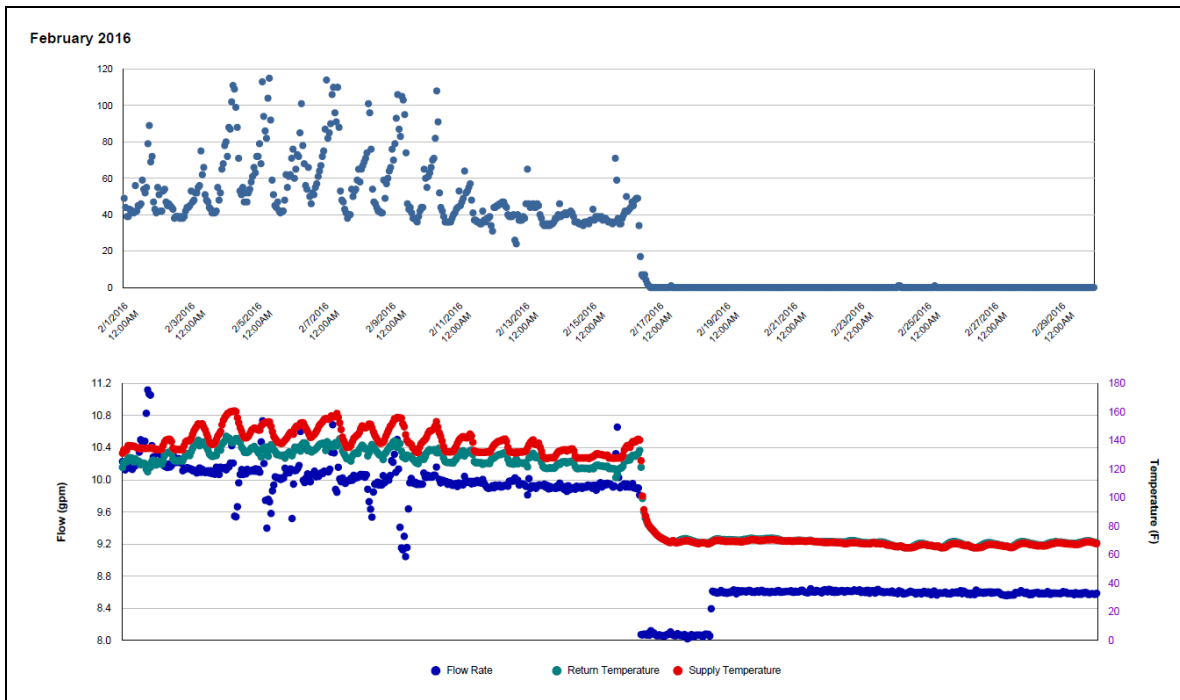
Quantitative descriptions and comments

The HHW consumption decreased to nearly zero since 2/16/2016, as the HHW flow rate decreased by 2 gpm and the delta-T was nearly zero. The consumption was estimated by a model.

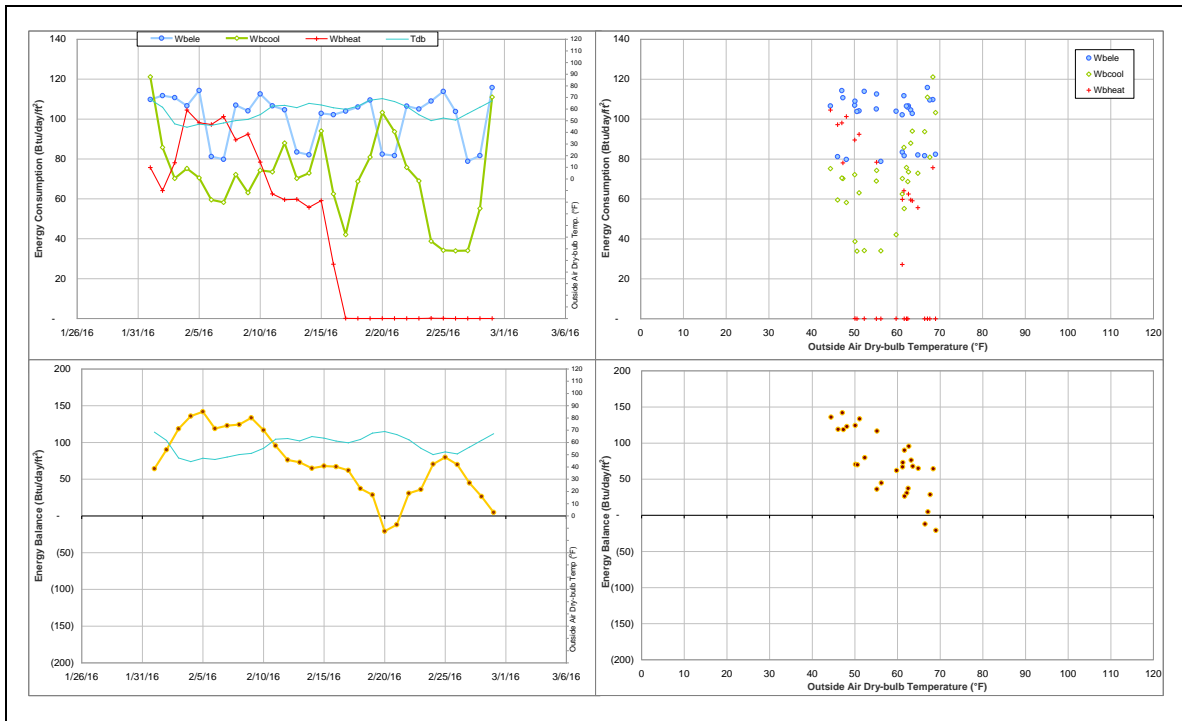
Explanatory Figure: 13 months energy balance plot with original data.



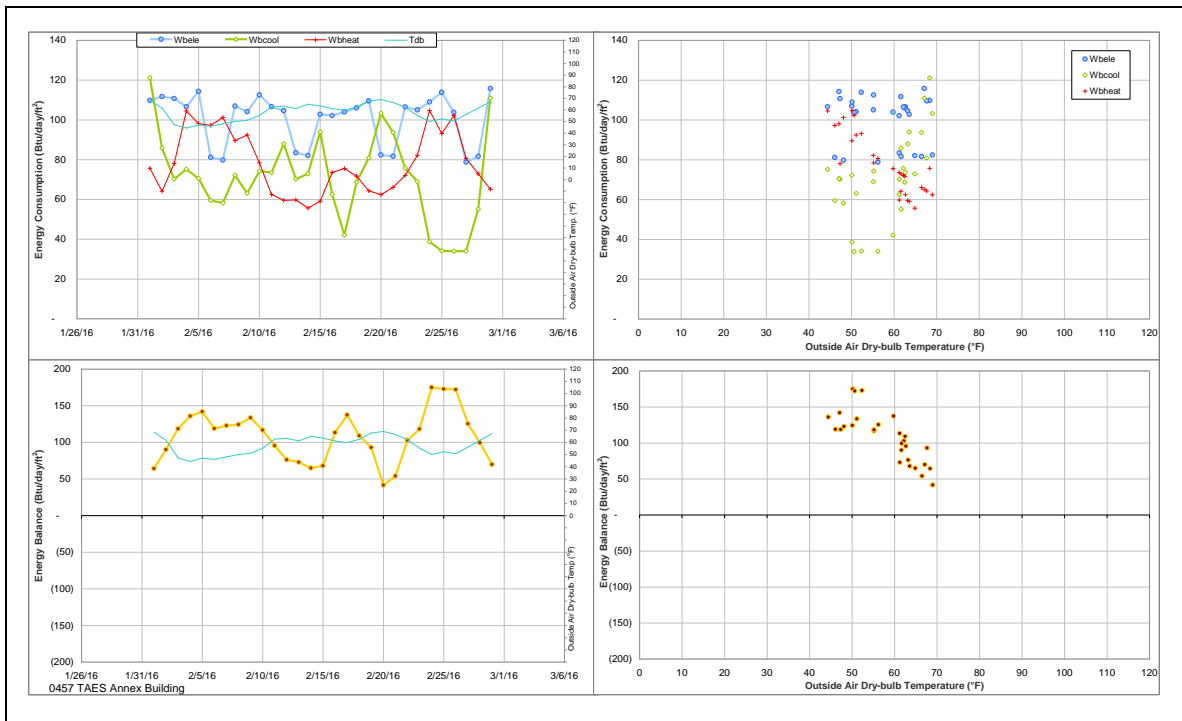
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Bolton Hall (TAMU Bldg# 480)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|-------------------|
| HHW | 007016 | 19 | 2/11/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|---------------------|
| HHW | The consumption level has decreased suddenly. | 2/11/2016 – ongoing |

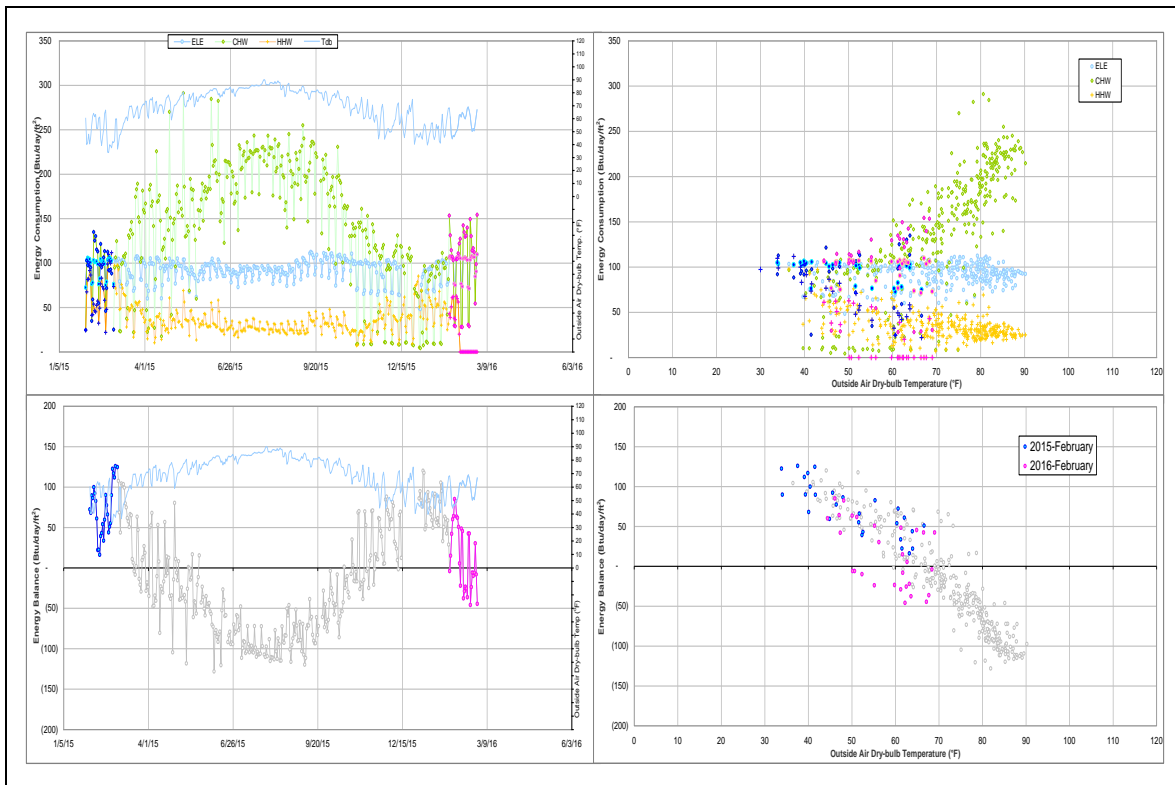
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|---------------------|-----------|--|
| HHW | 007016 | 2/11/2016 – ongoing | Flow Rate | Faulty, maintained at a constant value |

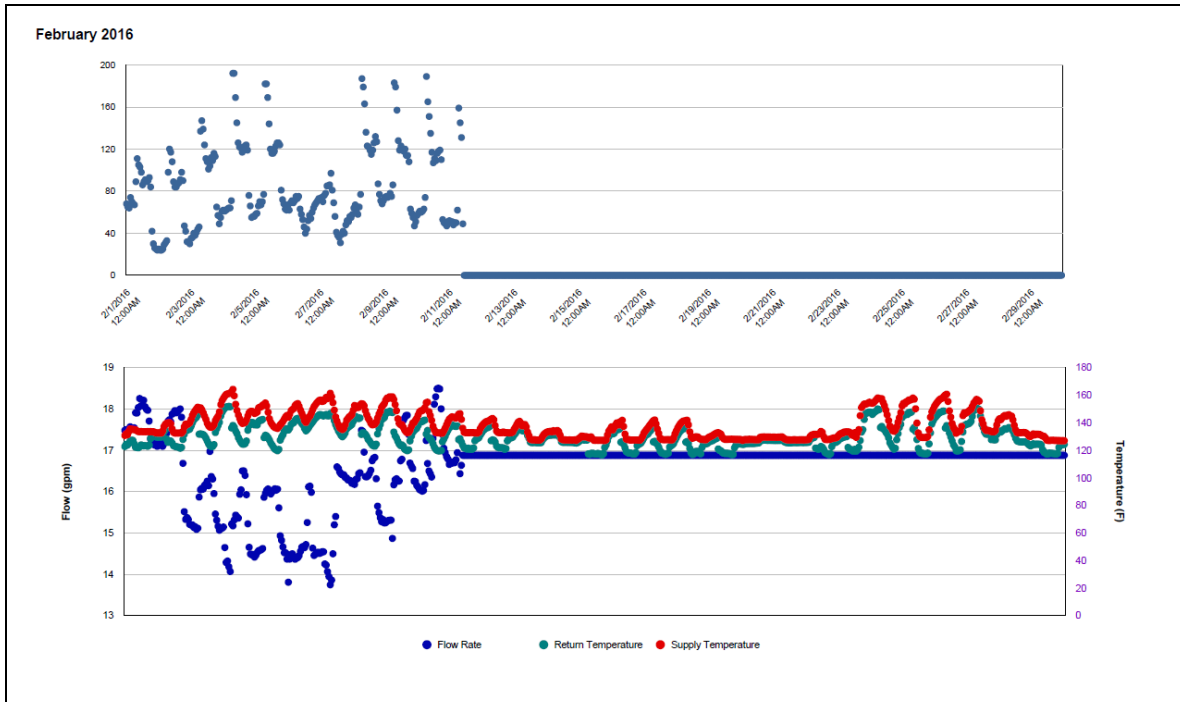
Quantitative descriptions and comments

The flow rate for HHW meter maintained at a constant value since 2/11/2016. As a result HHW consumption suddenly decreased to zero. The consumption was estimated by a model.

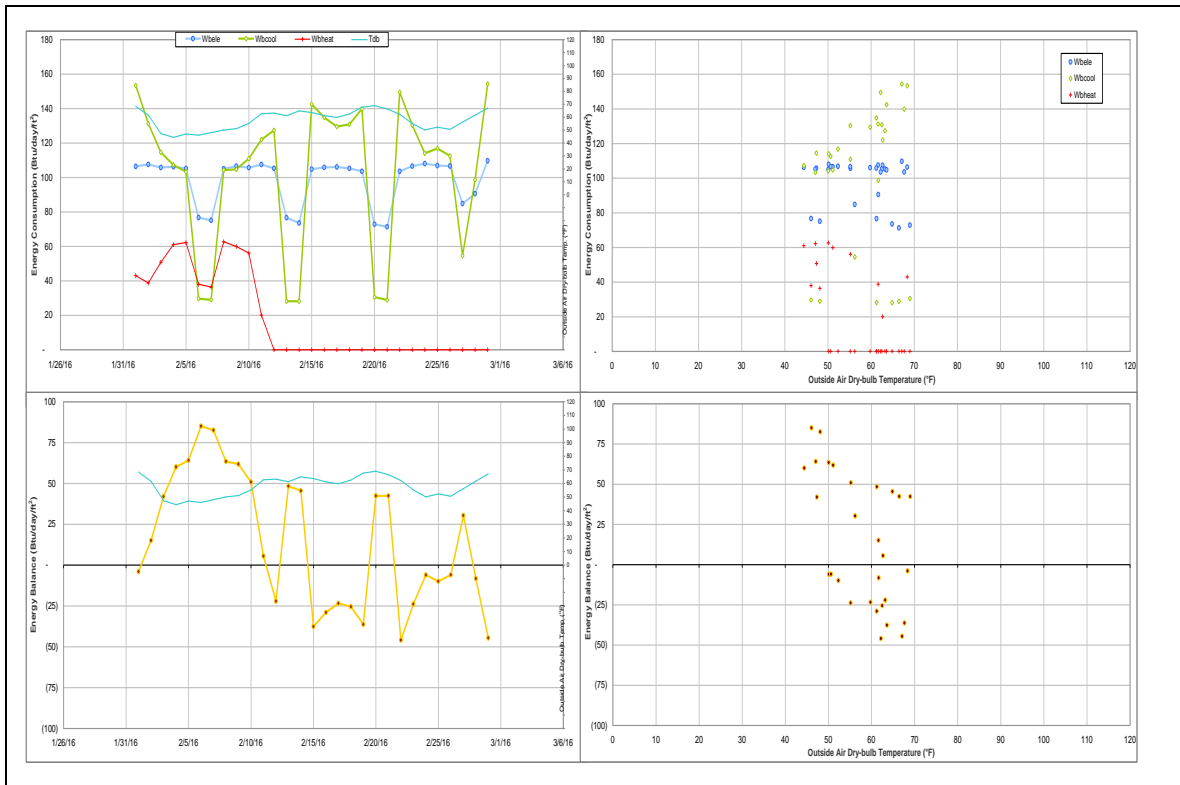
Explanatory Figure: 13 months energy balance plot with original data



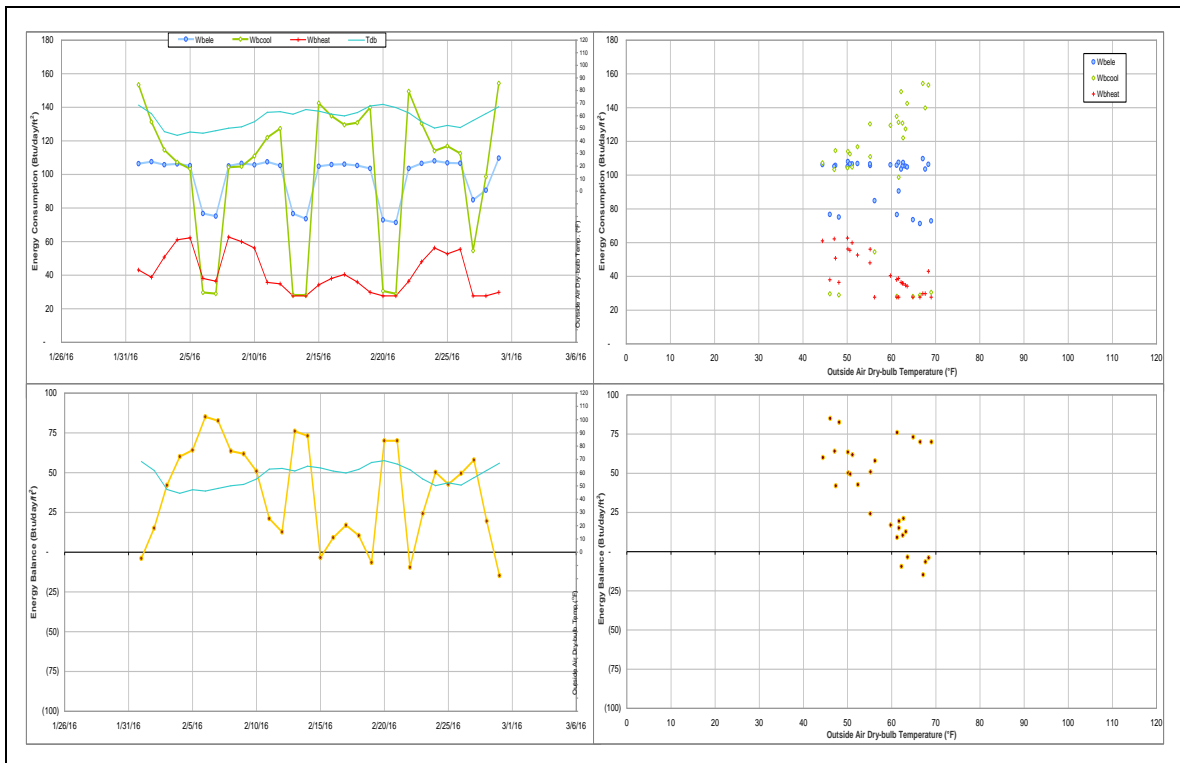
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Engineering Innovation Center (TAMU Bldg# 499)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-----------------------|----------------------|
| HHW | 002683 | 7 | 2/14/2016 – 2/20/2016 | Linear interpolation |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|-----------------------|
| HHW | The consumption dropped for a short period. | 2/14/2016 – 2/20/2016 |

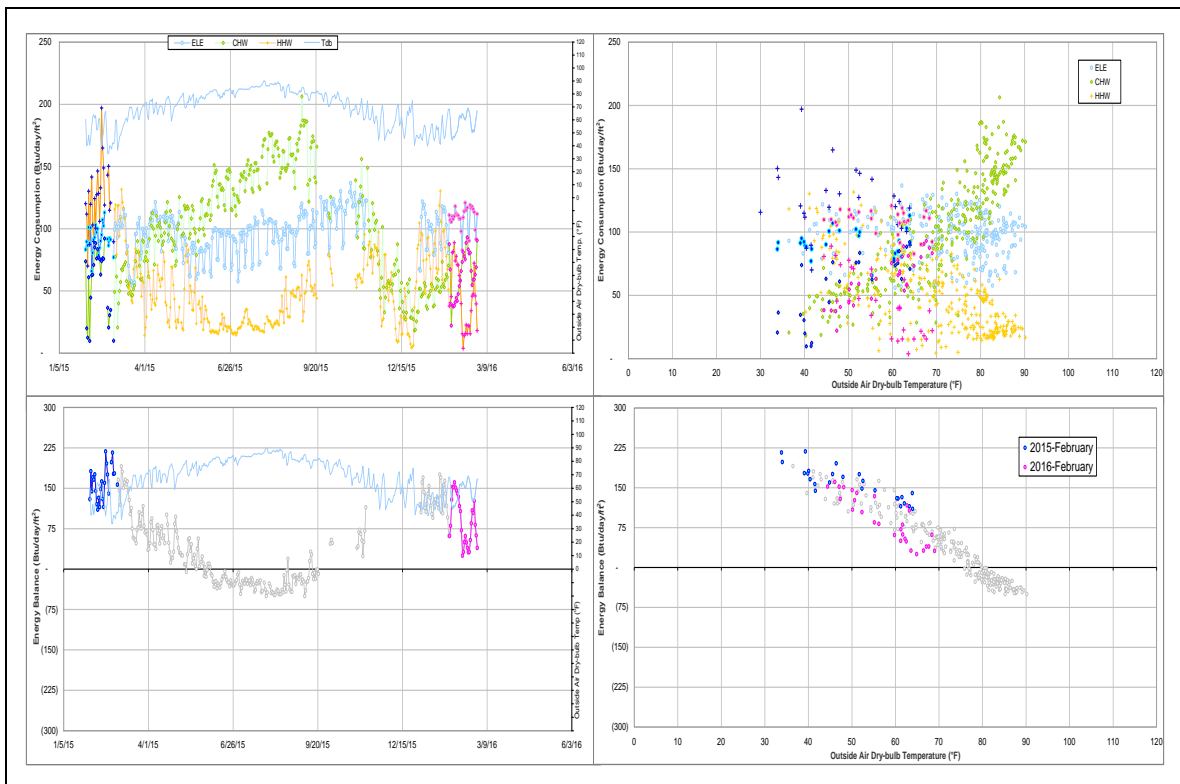
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|---------|-------------|
| HHW | 002683 | 2/14/2016 – 2/20/2016 | Delta-T | Negative |

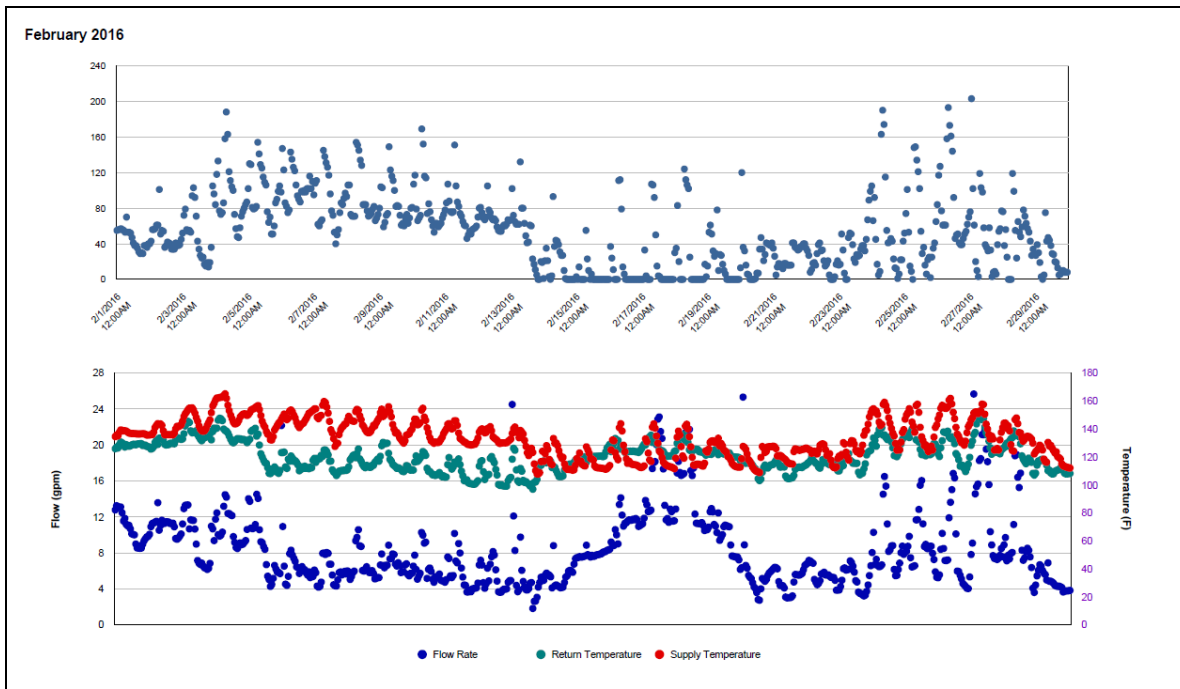
Quantitative descriptions and comments

The delta T for HHW shows to be negative from 2/14/2016 through 2/20/2016. As a result HHW consumption suddenly decreases during this period. The consumption was estimated by a linear interpolation.

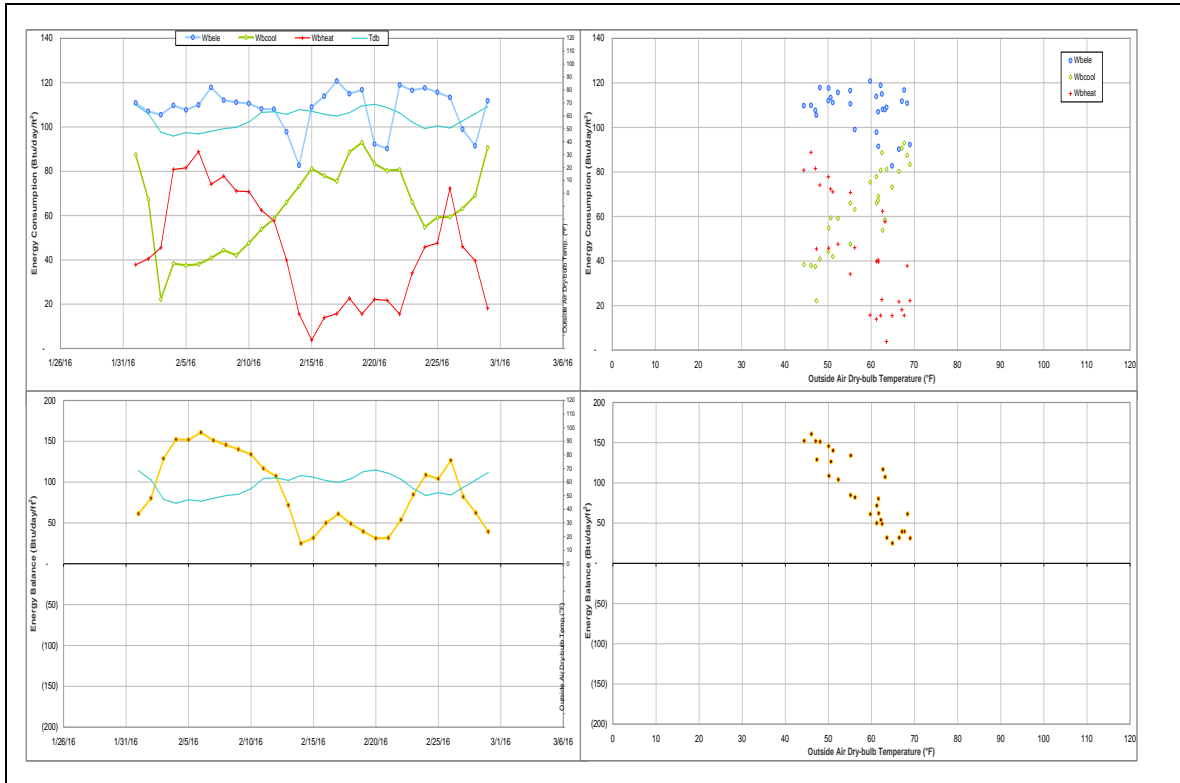
Explanatory Figure: 13 months energy balance plot with original data



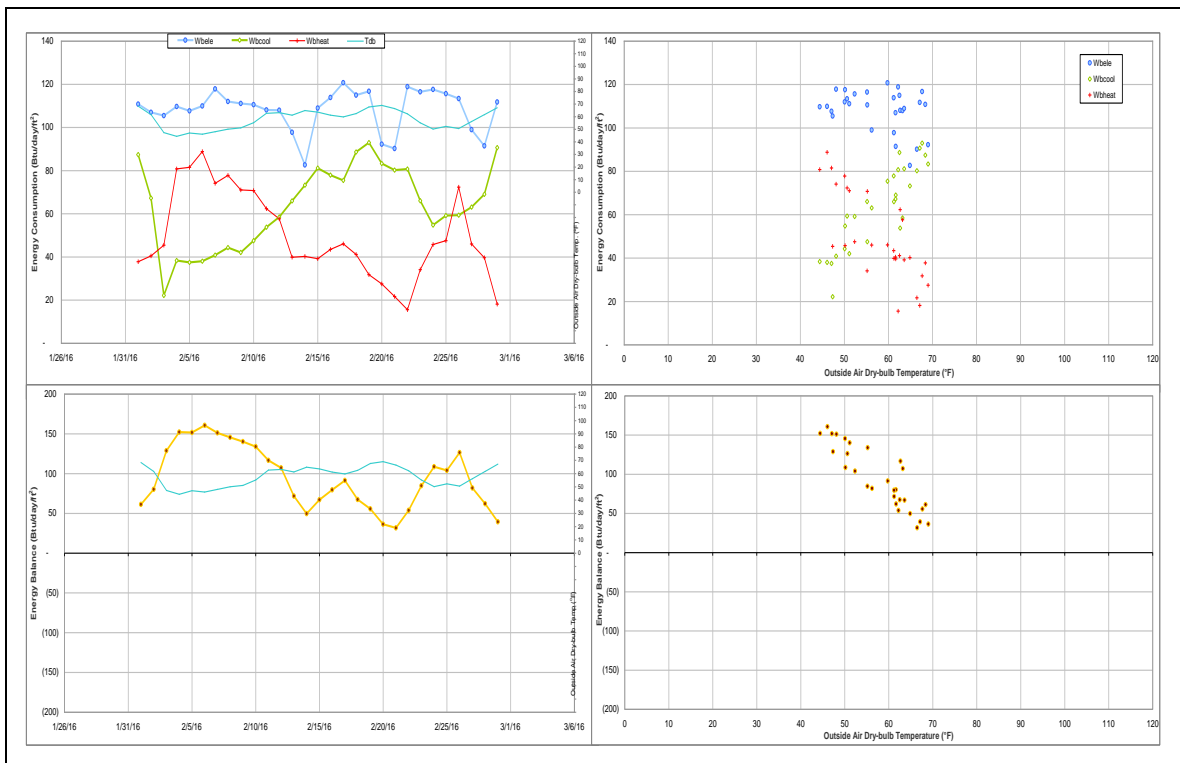
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Veterinary Teaching Hospital and Veterinary Medicine Administration (TAMU Bldg #508)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|----------------------|-------------------|
| HHW | 004170 | 29 | 2/1/2016 – 2/29/2016 | Model |

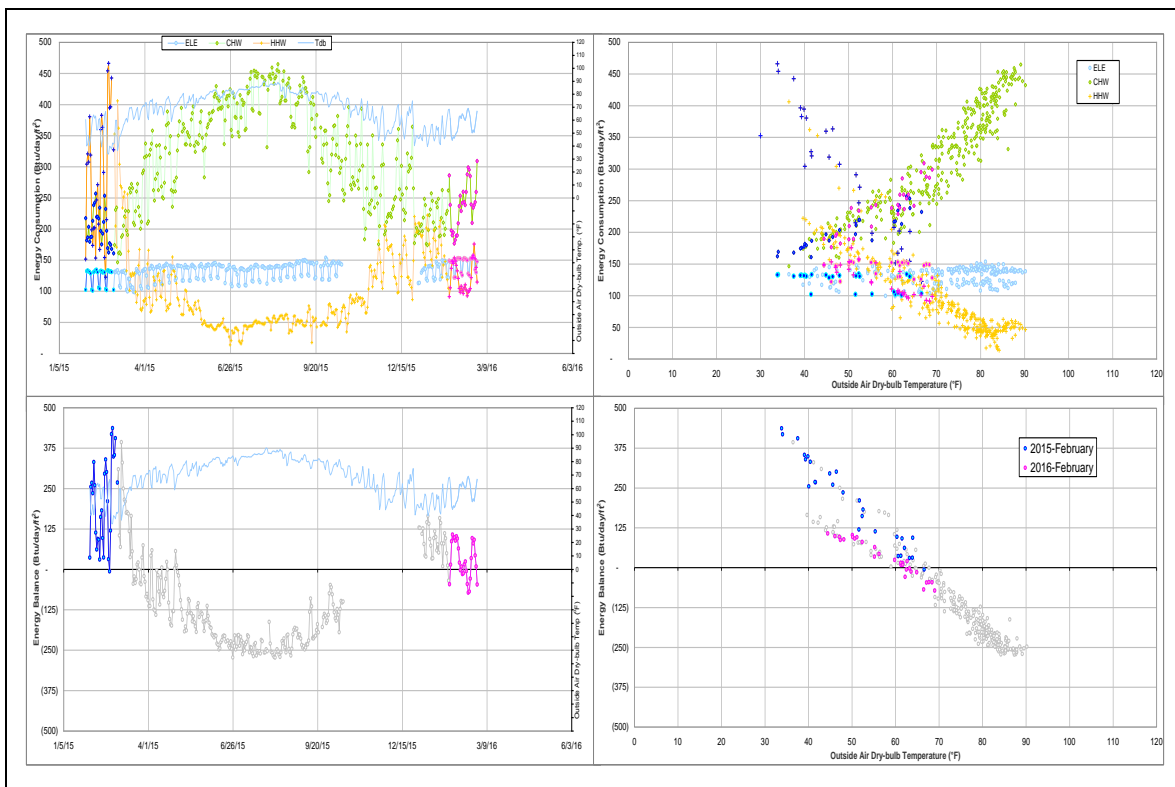
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|------------------|
| HHW | The consumption level is lower than the level during the past year. | Jan 2016-ongoing |

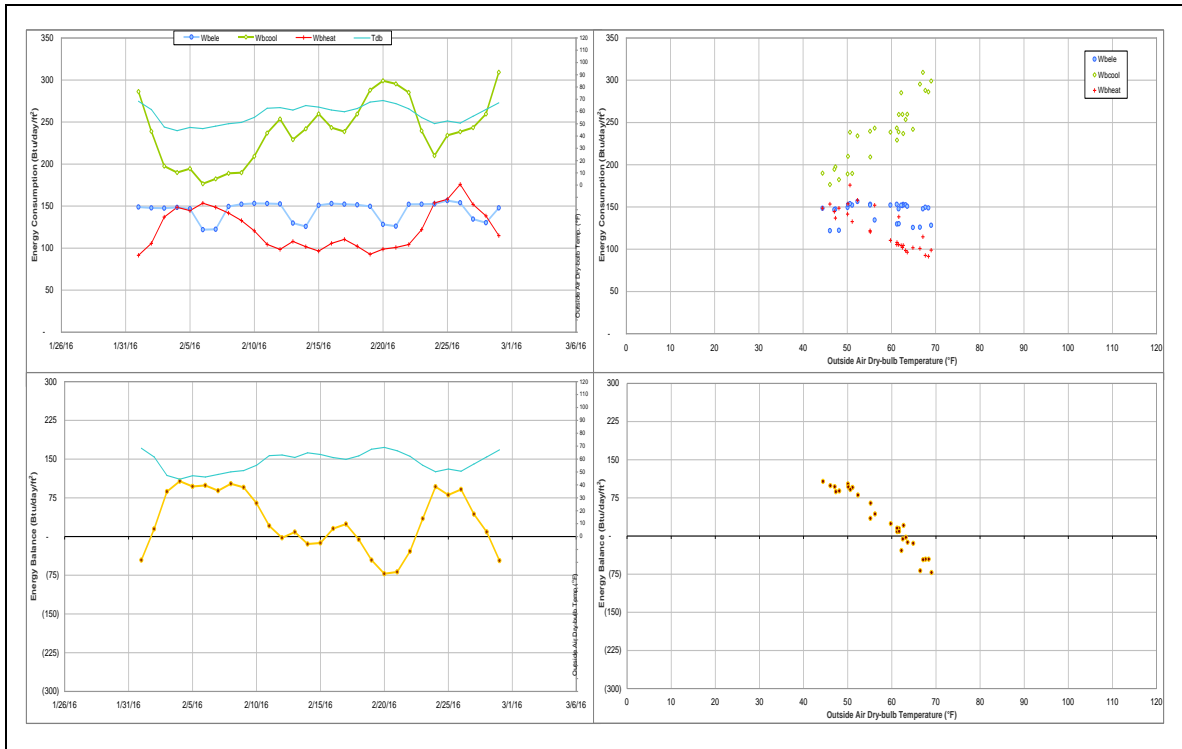
Quantitative descriptions and comments

The HHW consumption decreased gradually this year. The consumption level for current month is approximately 50-150 Btu/day/ft² lower than same month of last year. The consumption was estimated by a model.

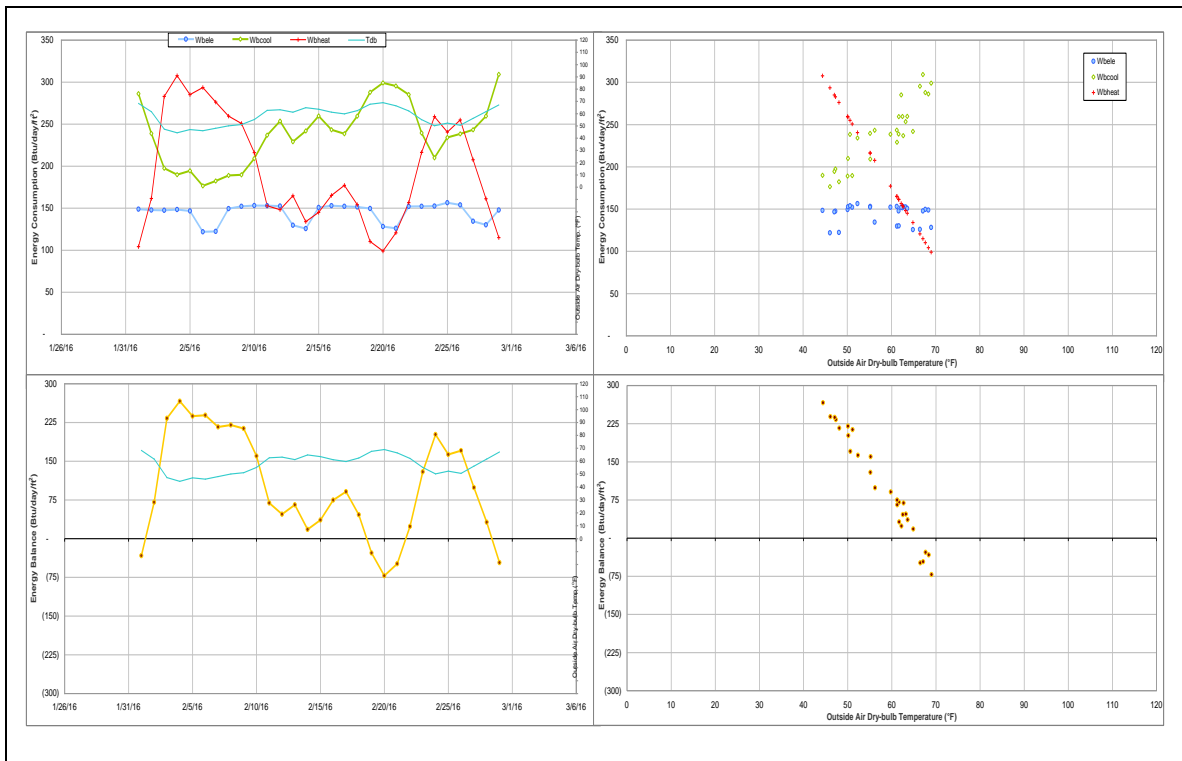
Explanatory Figure: 13 months energy balance plot with original data.



Energy balance plot using the original data for the month of analysis.



Energy balance plot using the estimated data for the month of analysis



Beutel Health Center (TAMU Bldg # 520)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|----------------------|-------------------|
| CHW | 003933 | 29 | 2/1/2016 – 2/29/2016 | Model |
| HHW | 003944 | 29 | 2/1/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|----------------------------------|-------------------|
| CHW | The consumption level decreased. | 8/22/2015-ongoing |
| HHW | The consumption level decreased. | 8/22/2015-ongoing |

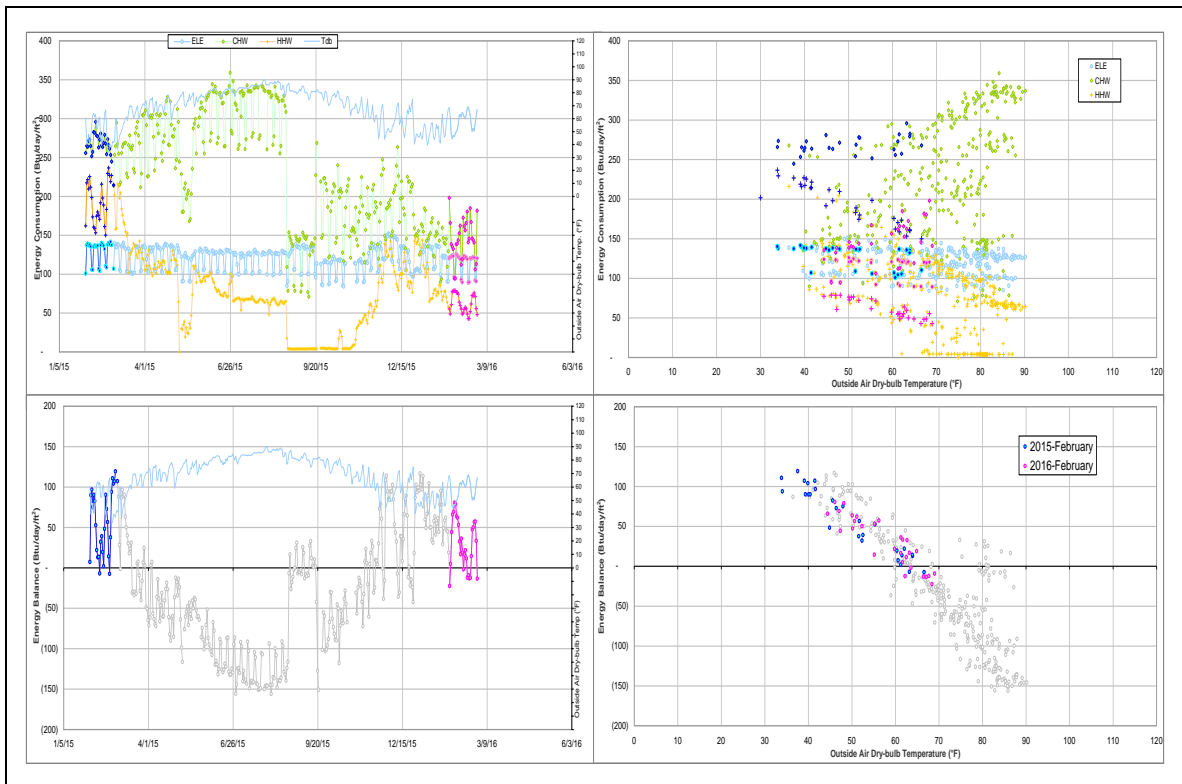
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|-----------|---------------------|
| CHW | 003933 | 8/22/2015 – 9/19/2015 | Flow Rate | Decreased |
| | | 8/22/2015 - ongoing | Delta-T | Decreased |
| HHW | 003944 | 8/22/2015 - ongoing | Delta-T | Decreased and small |

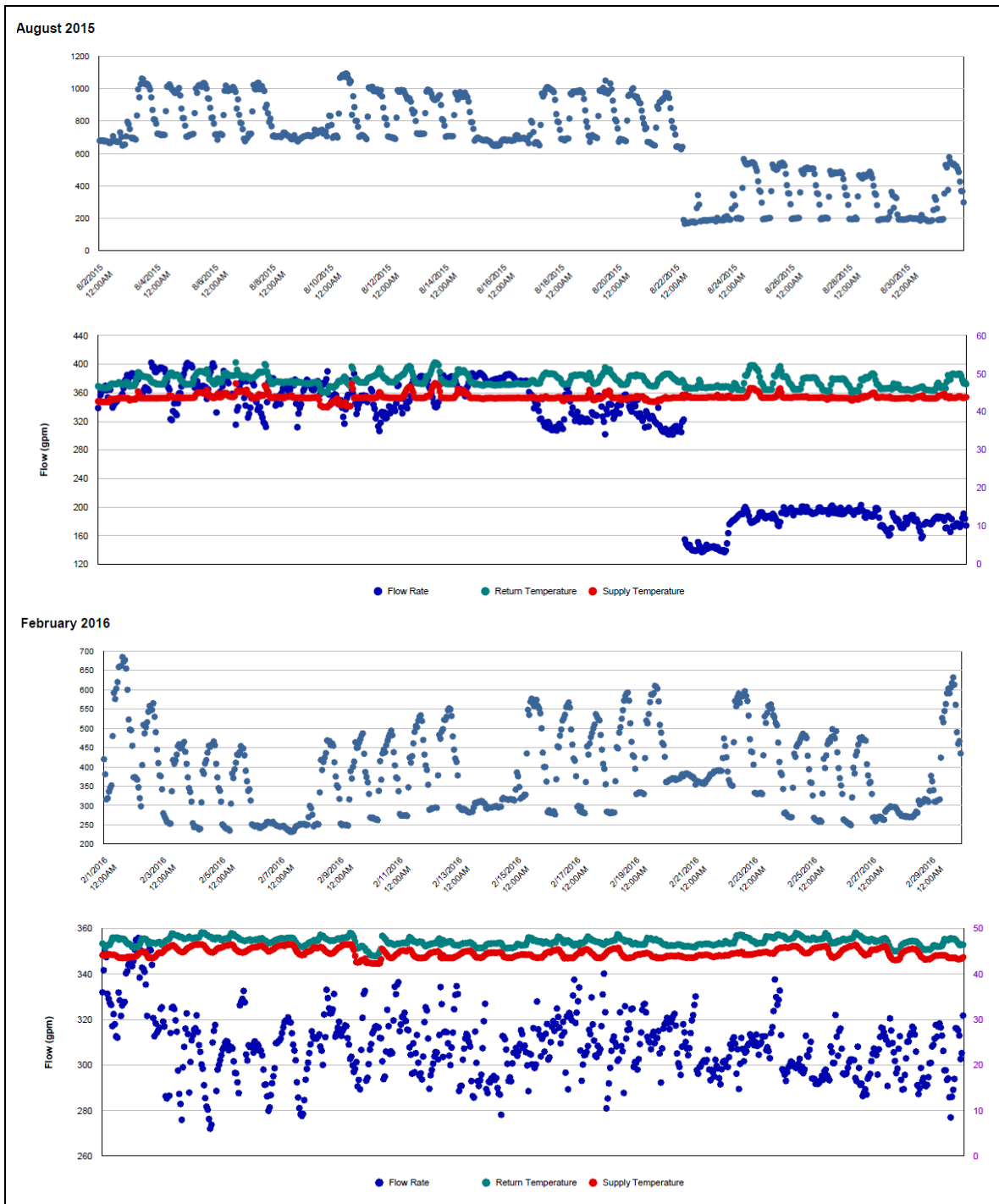
Quantitative descriptions and comments

The return temperature for HHW meter increased and the delta-T became very small since 8/22/2015. At the same time, the flow rate decreased around 50%. As a result, the HHW consumption decreased largely (~80%). The CHW consumption also decreased by approximately 50% after 8/22/2015 caused by a decrease in flow rate. The flow rate increased back on 9/19/2015, but the consumption level for current month is 100 Btu/day/ft² lower than that before 8/22/2015. The consumption was estimated by models based on the data during 8/1/2014 - 7/31/2015. We would like to know if this building has renovation recently.

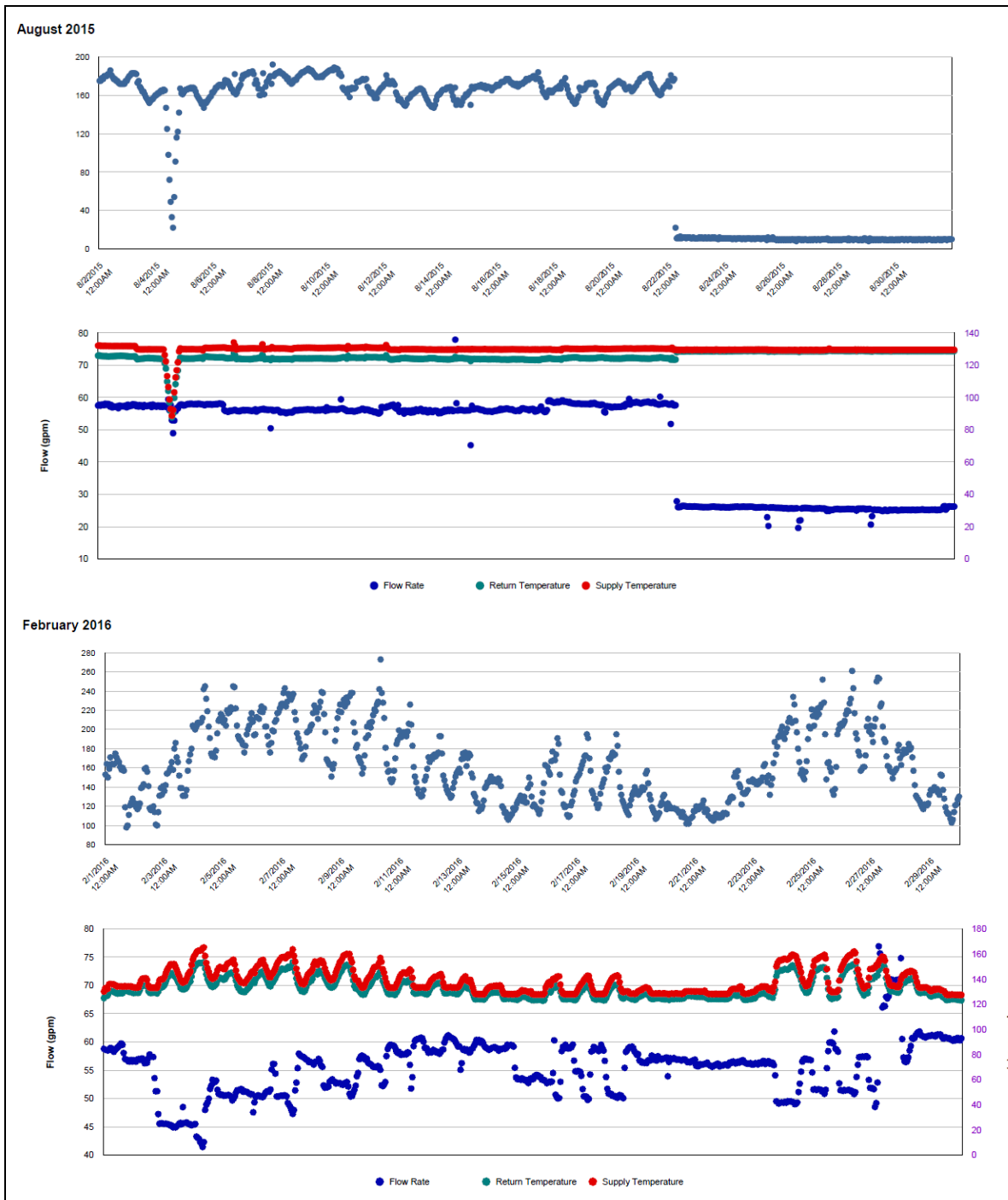
Explanatory Figure: 13 months energy balance plot with original data.



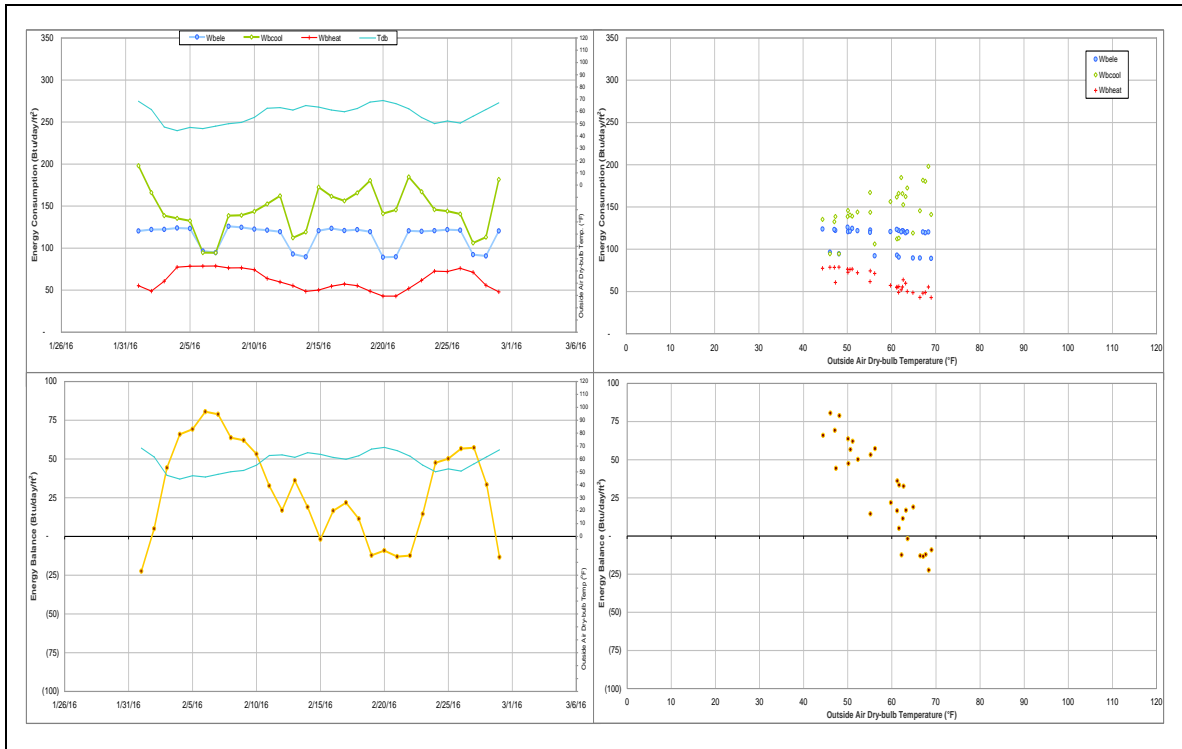
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (CHW meter during August 2015 (top) and February 2016 (bottom))



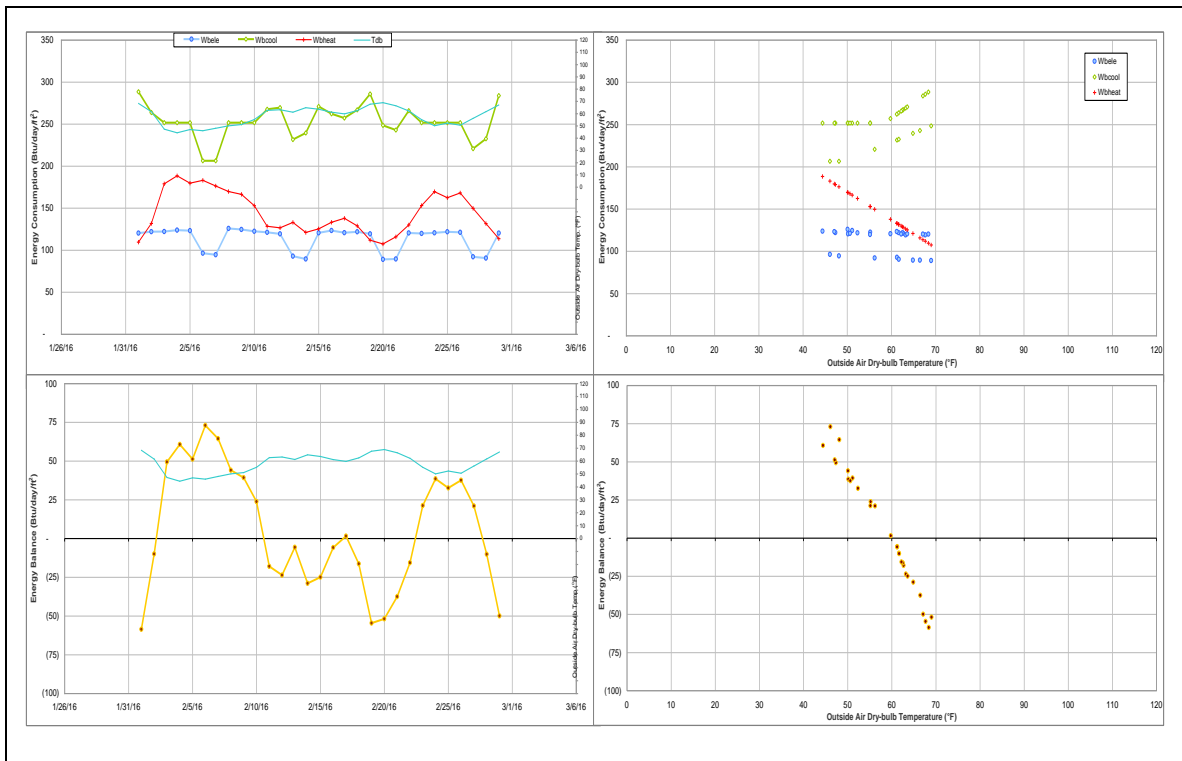
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during August 2015 (top) and February 2016 (bottom))



Energy balance plot using the original data for the month of analysis.



Energy balance plot using the estimated data for the month of analysis



McNew Laboratory (TAMU Bldg #740)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|----------------------|-------------------|
| HHW | 005968 | 29 | 2/1/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|-------------------|
| Energy Balance | The level decreased and the cross-point of temperature is too low. | 3/22/2013–ongoing |
| HHW | The consumption level decreased by 60% or more. | 3/22/2013–ongoing |

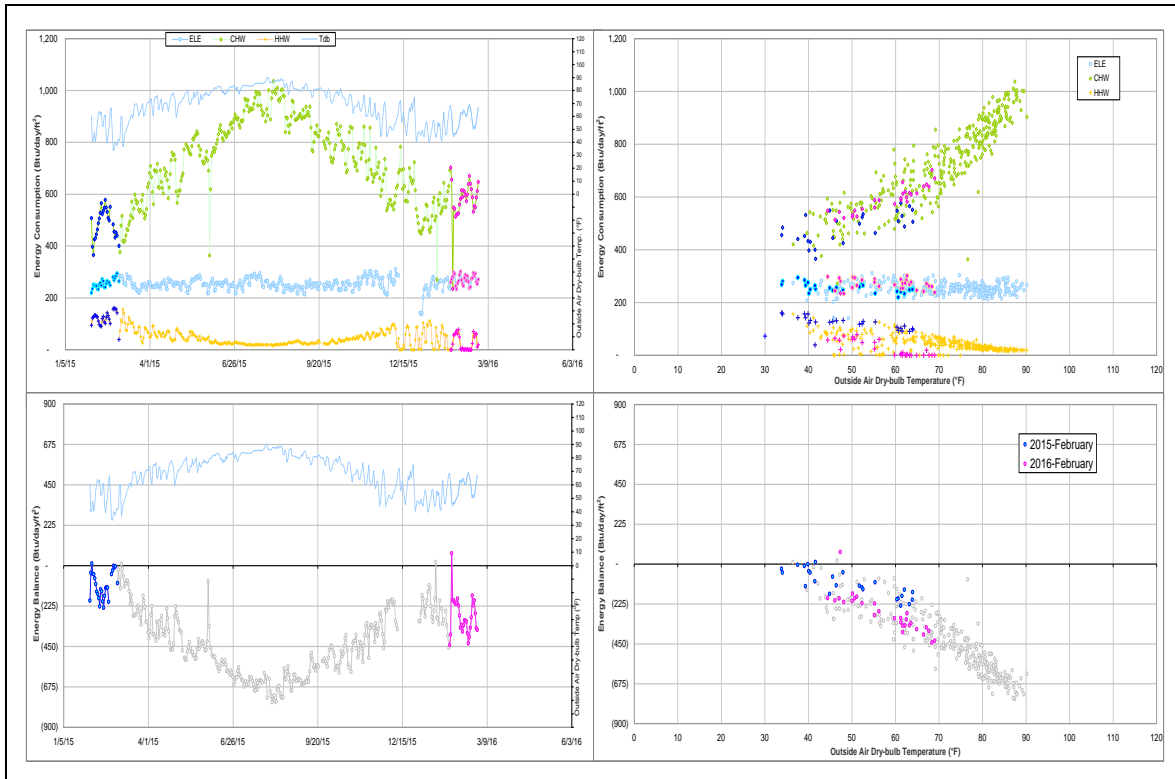
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|--------------------|-----------|-------------------|
| HHW | 005968 | 3/22/2013–1/1/2014 | Flow Rate | Decreased largely |
| | | 1/1/2014 - ongoing | Delta-T | Small |

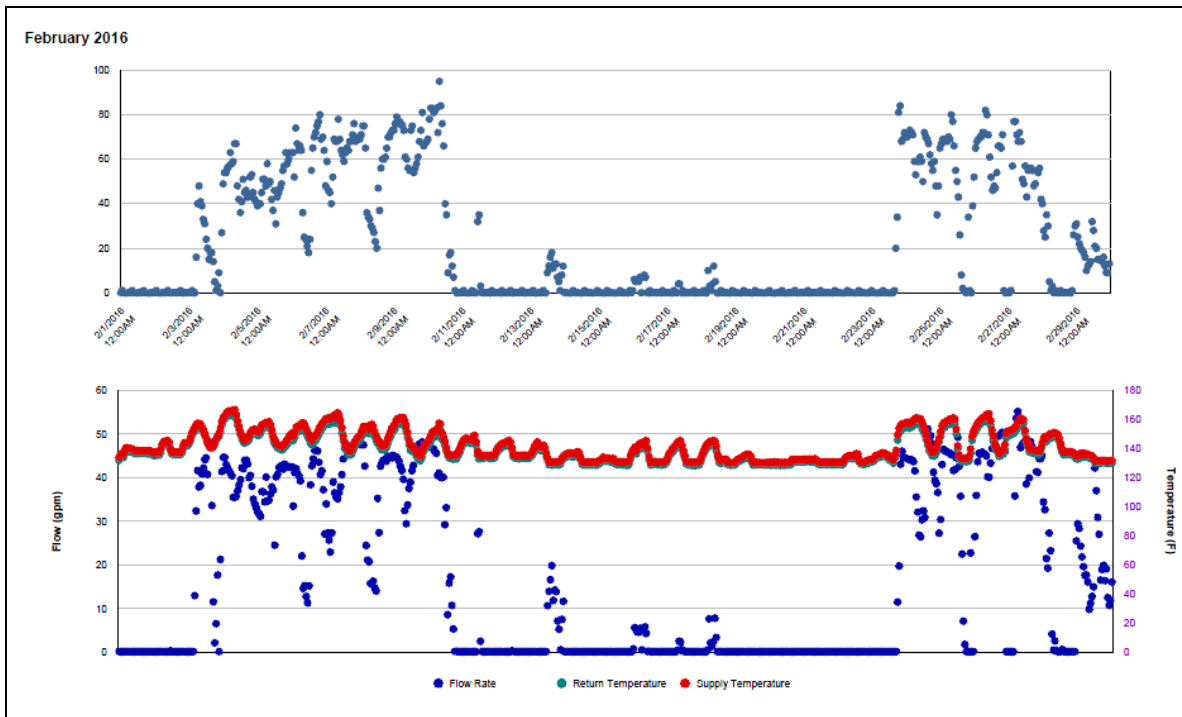
Quantitative descriptions and comments

The energy balance level decreased with around 40°F of cross-point temperature after 3/22/2013 due to the decreased of the HHW consumption. The HHW consumption in current month is about 200 Btu/day/ft² lower than that before 3/22/2013. The consumptions were estimated by a model.

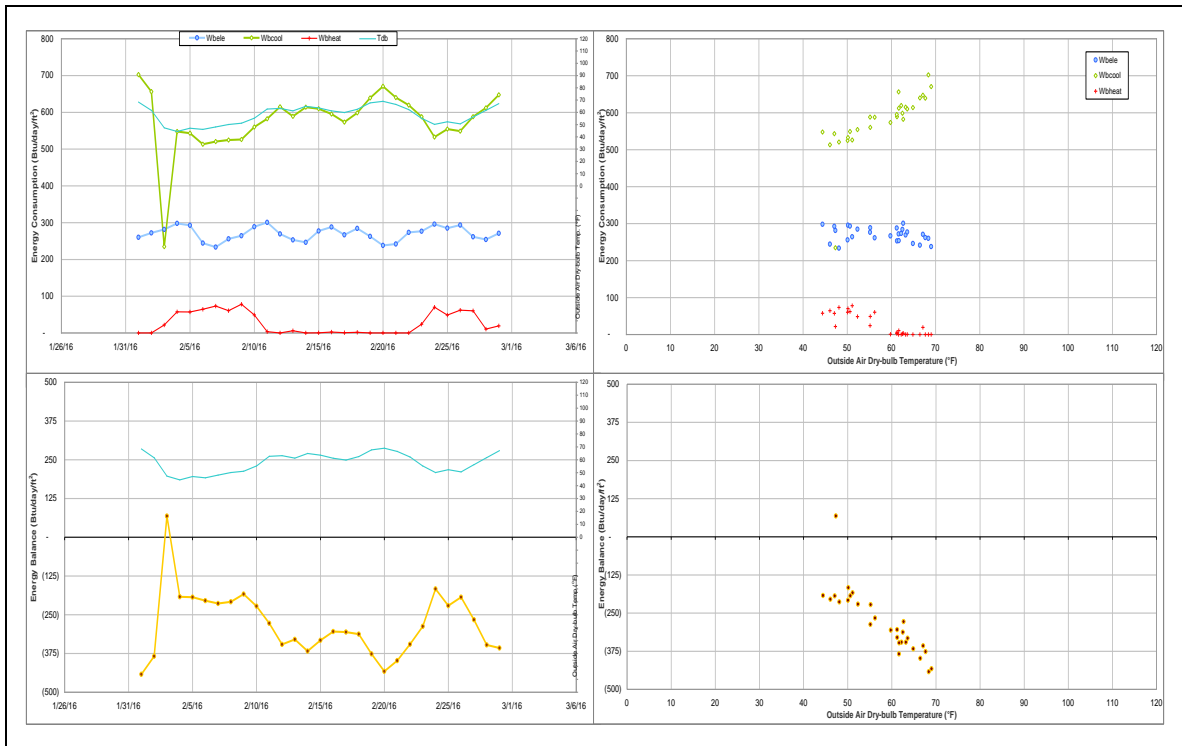
Explanatory Figure: 13 months energy balance plot with original data



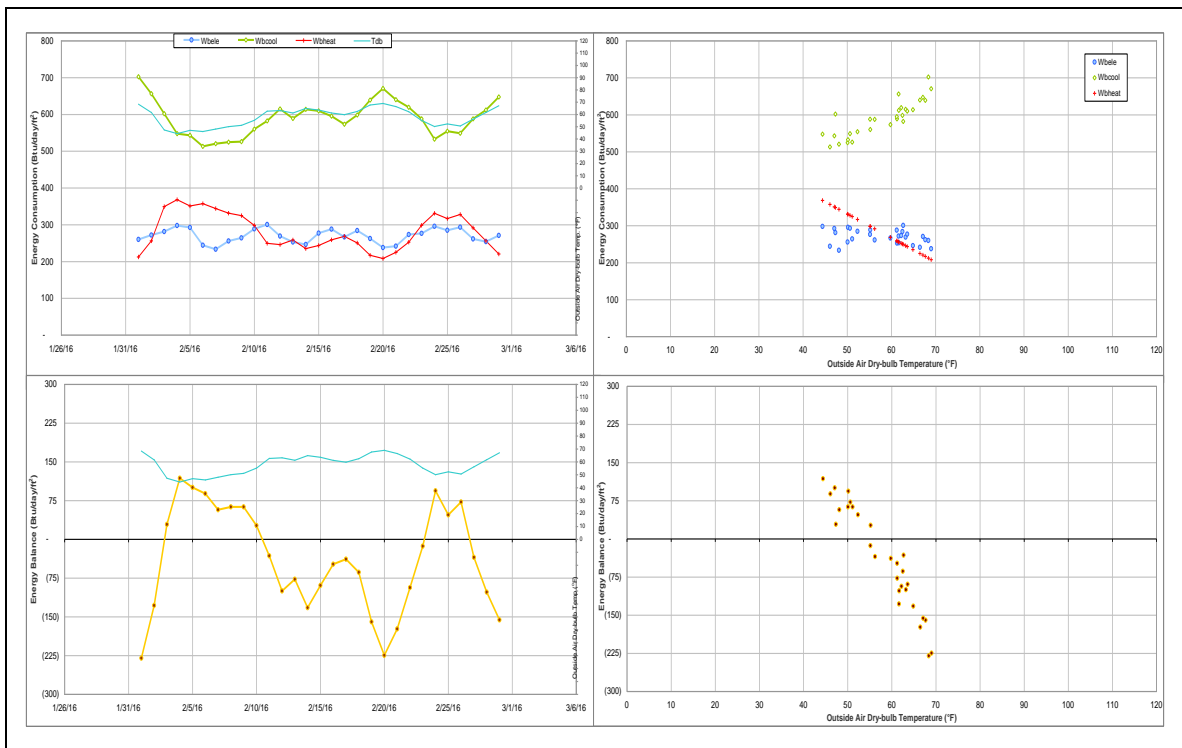
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from utilities office. (HHW meter during February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Vivarium III (TAMU Bldg #1020)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|----------------------|-------------------|
| CHW | 005997 | 29 | 2/1/2016 – 2/29/2016 | Model |
| HHW | 006001 | 29 | 2/1/2016 – 2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--|------------------------|
| CHW | The consumption increased. | 1/14/2016 – ongoing |
| HHW | The consumption level for this month is low. | October 2015 – ongoing |

Changes in sensor readings related to the detected issues

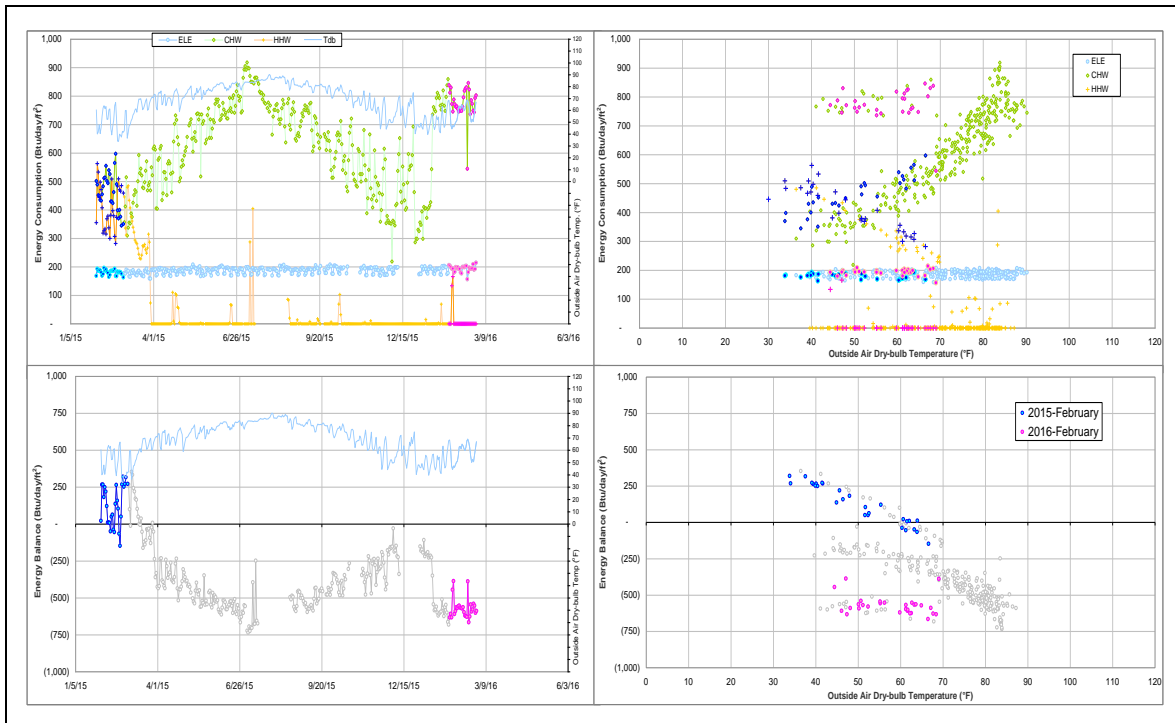
| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|---------------------|--------------------|-------------|
| CHW | 006001 | 1/14/2016 – ongoing | Return Temperature | Increased |

Quantitative descriptions and comments

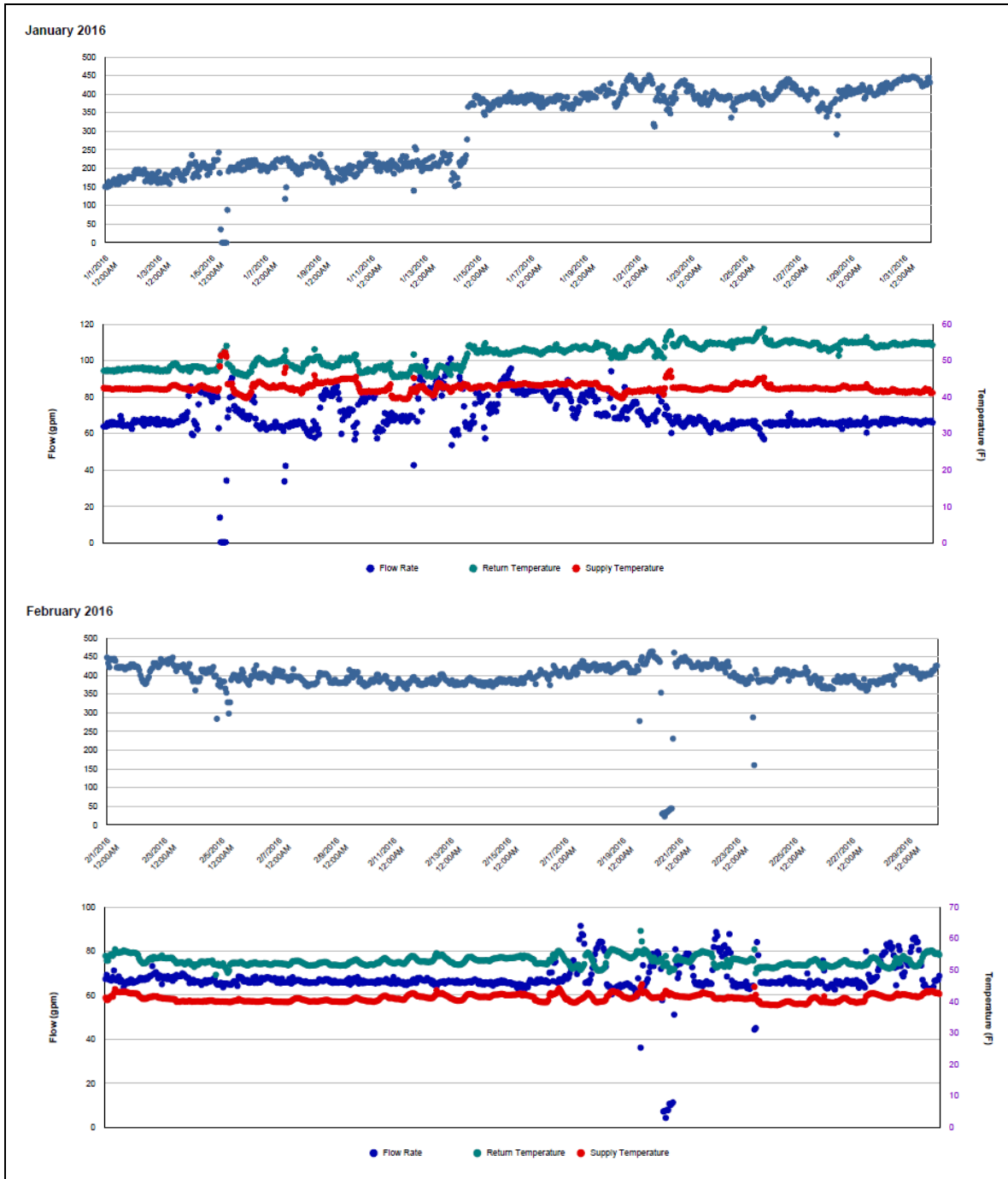
CHW consumption increased by approximately 100% since 1/14/2016 due to a sudden increase of return temperature. The return temperature increased from ~48°F to ~55°F.

The HHW consumption for this building doesn't seem to be used too much during summer period. Usually the consumption increased after October. But the HHW consumption for this month still maintained at low consumption level. As a result, the energy balance load for current month is low with the cross-point temperature less than 40°F. The consumption for entire month was estimated by models.

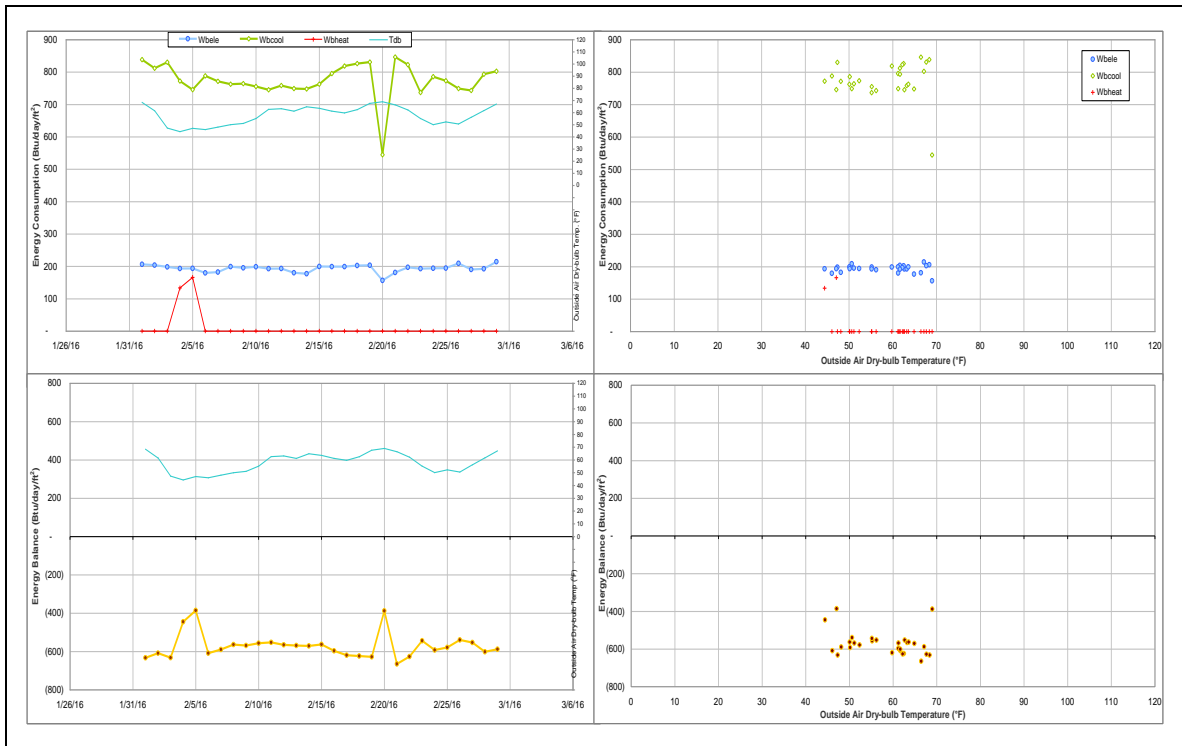
Explanatory Figure: 13 months energy balance plot with original data (problematic HHW data during 7/16/2015 – 8/16/2015 has been removed from the plot.)



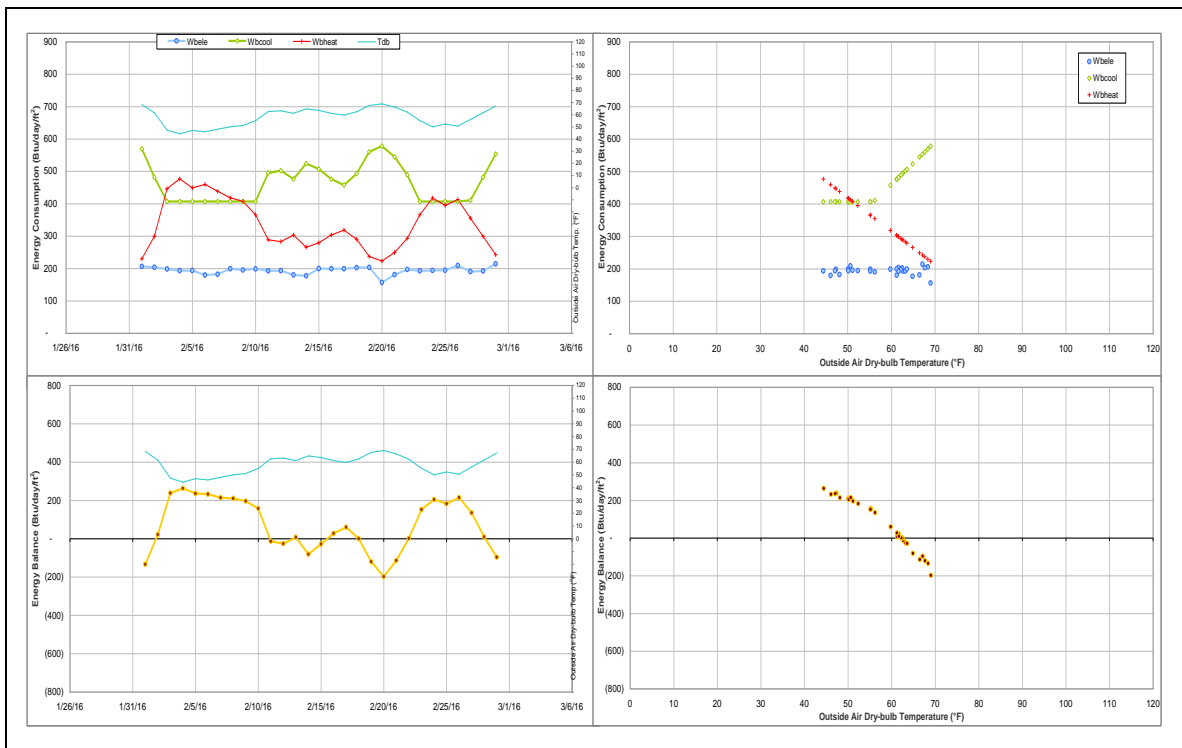
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (CHW meter for January (top) and February (bottom) 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Veterinary Small Animal Hospital (TAMU Bldg #1085)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|---------------------|-------------------|
| HHW | 003660 | 12 | 2/13/2016-2/24/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--|---------------------|
| HHW | The consumption increased and the recorded values seemed to be faulty. | 2/13/2016-2/24/2016 |

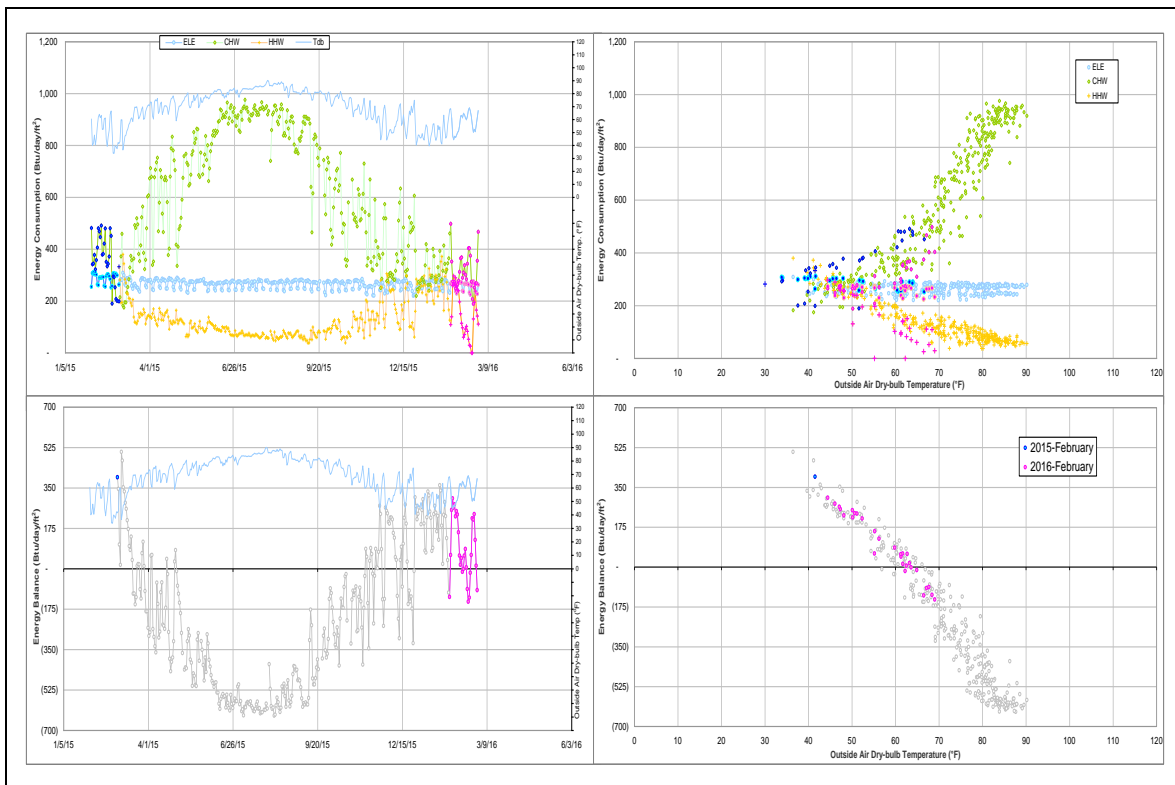
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|---------------------|-----------|-------------------|
| HHW | 003660 | 2/13/2016-2/21/2016 | Delta-T | Decreased |
| | | 2/21/2016-2/23/2016 | Flow rate | Decreased to zero |

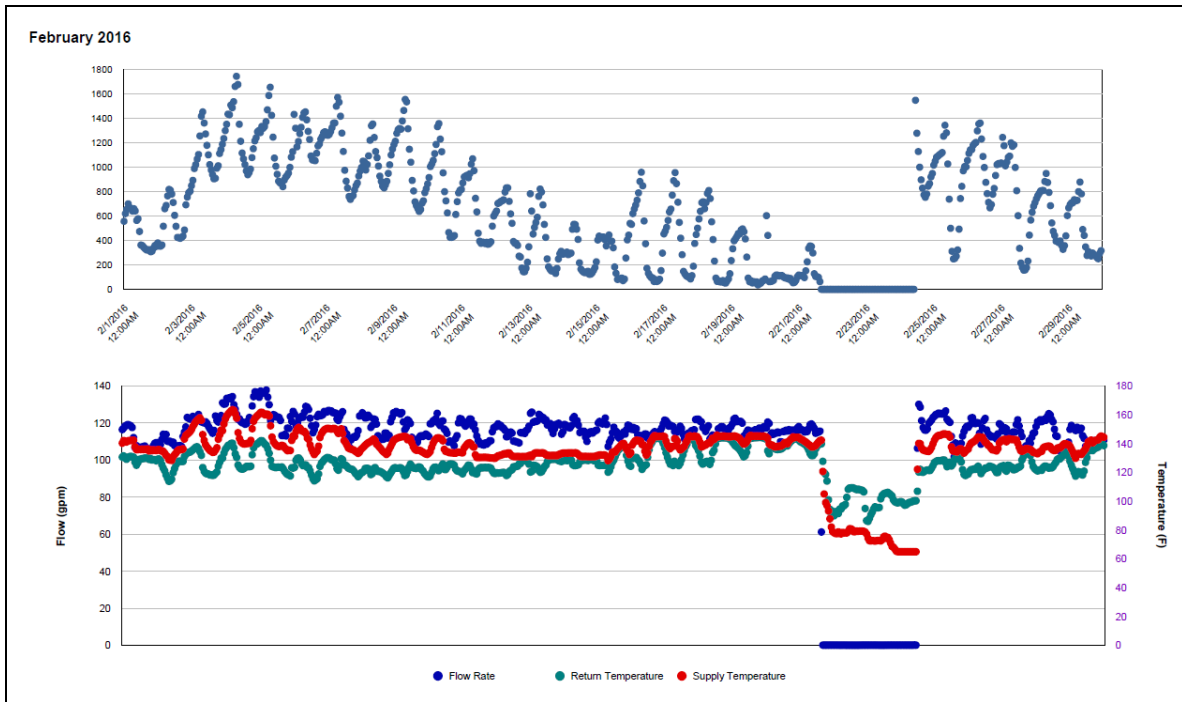
Quantitative descriptions and comments

The HHW consumption decreased 50 – 150 Btu/day/ft² caused by decreased delta-T during 2/13/2016 – 2/21/2016 and zero reading of flow rate decreased to zero during 2/21/2016 – 2/23/2016. The problematic consumption was estimated by a model.

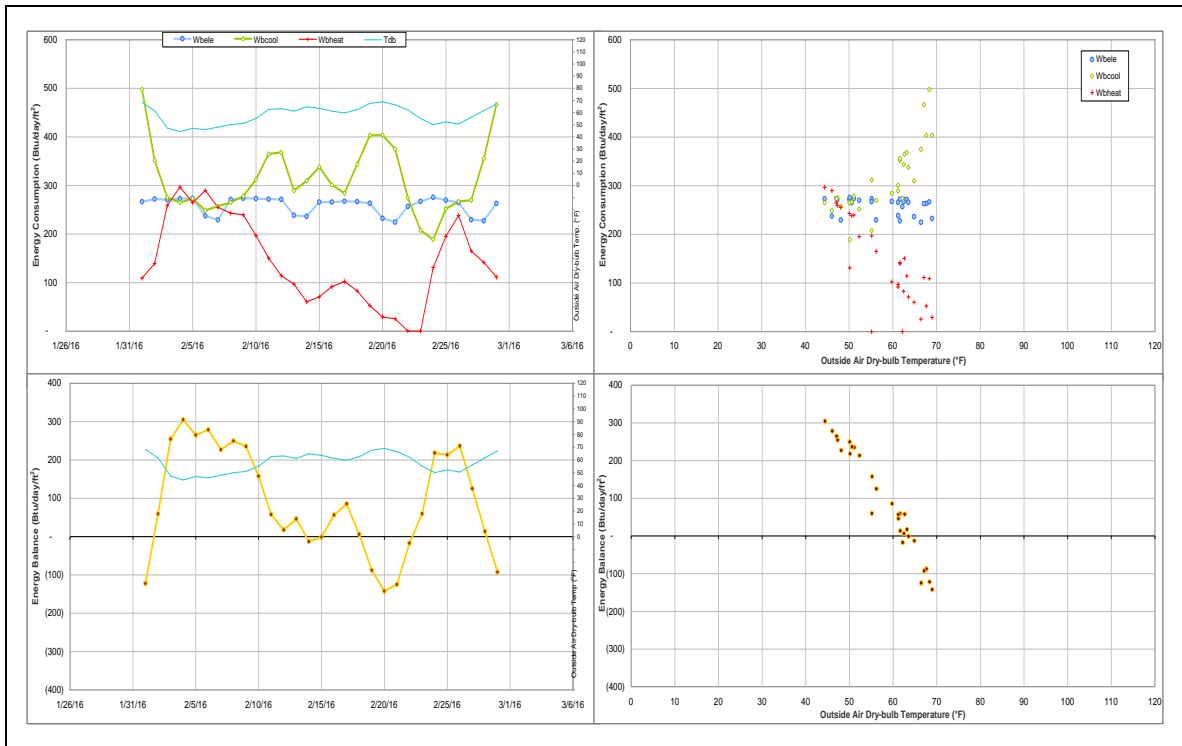
Explanatory Figure: 13 months energy balance plot with original data



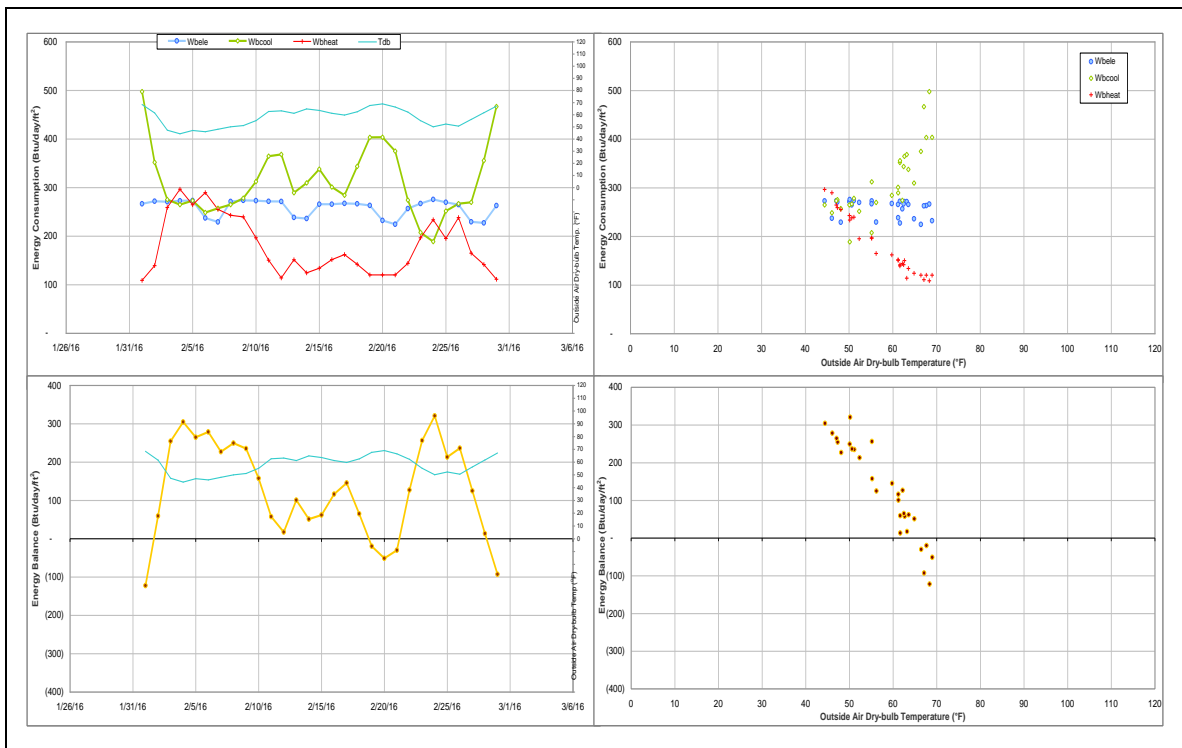
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (HHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Biological Control Facility (TAMU Bldg #1146)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|---------------------|-------------------|
| CHW | 005887 | 14 | 2/16/2016-2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--|-------------------|
| CHW | The consumption increased and the recorded values seemed to be faulty. | 2/16/2016-ongoing |

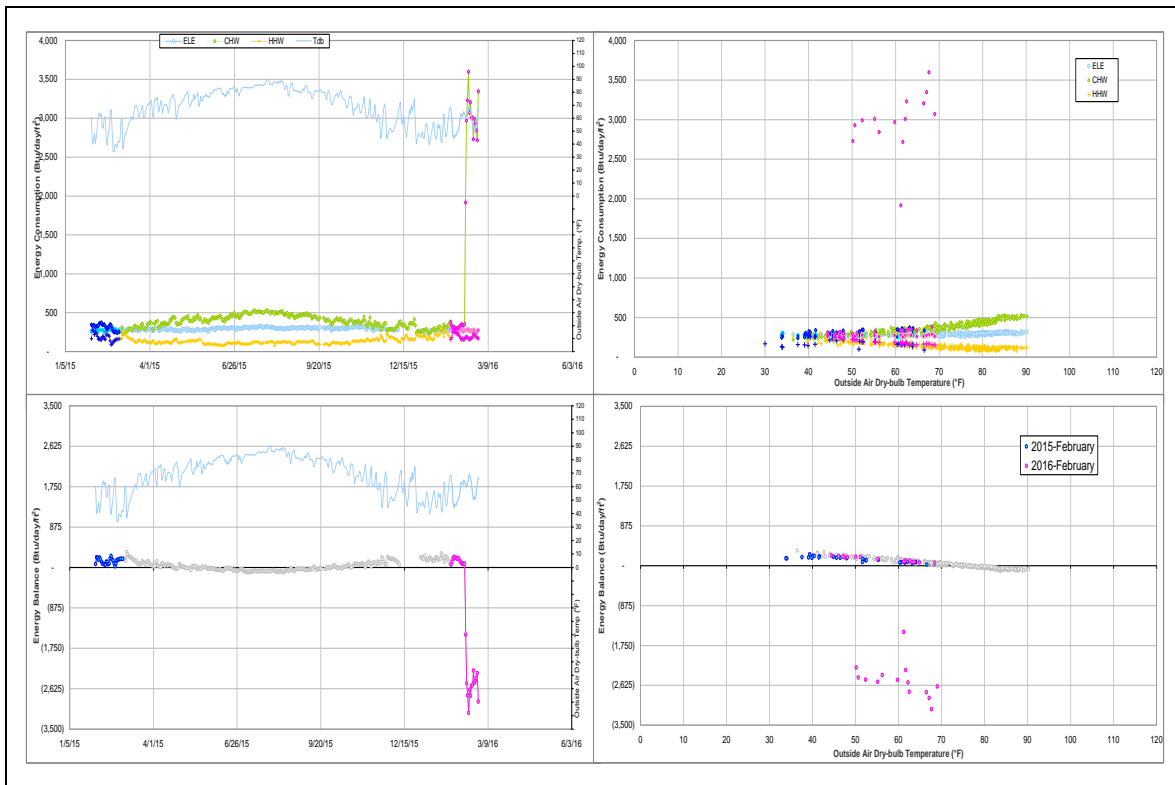
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-------------------|-----------|---|
| CHW | 005887 | 2/16/2016-ongoing | Flow rate | Faulty; Increased and maintained at a constant value |

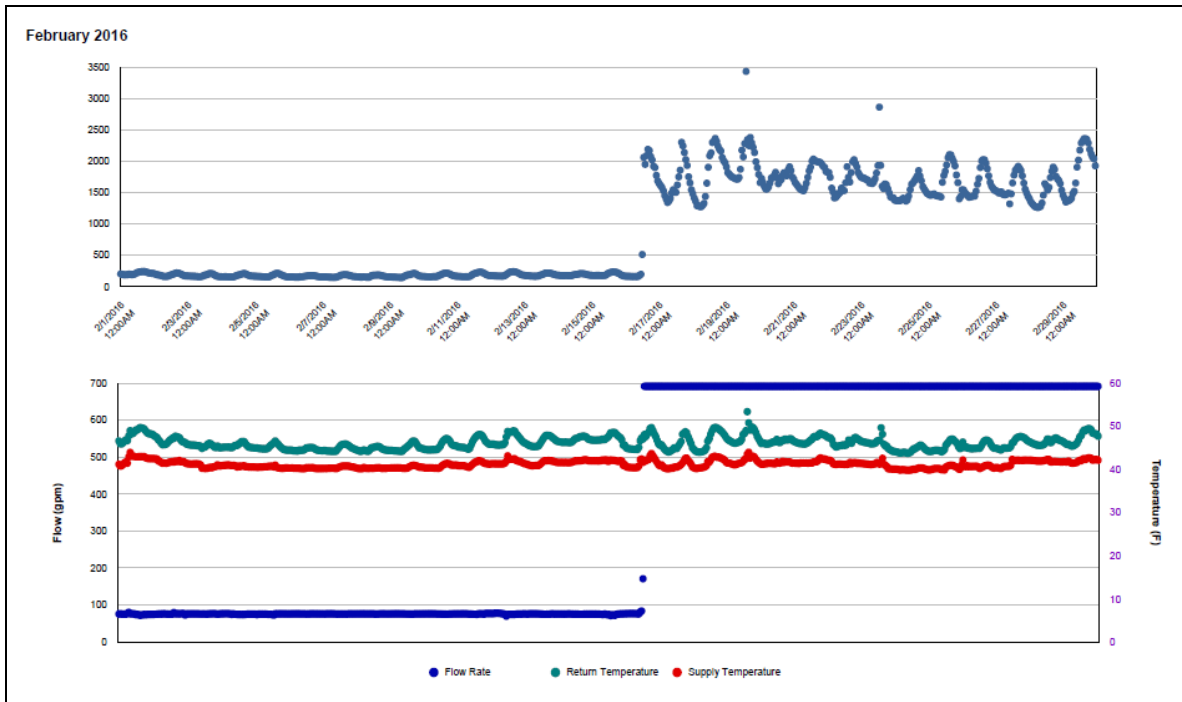
Quantitative descriptions and comments

CHW consumption increased by 200 – 600 Btu/day/ft² since 2/16/2016 because the flow rate increased and maintained at a constant value. The faulty consumption was estimated by a model.

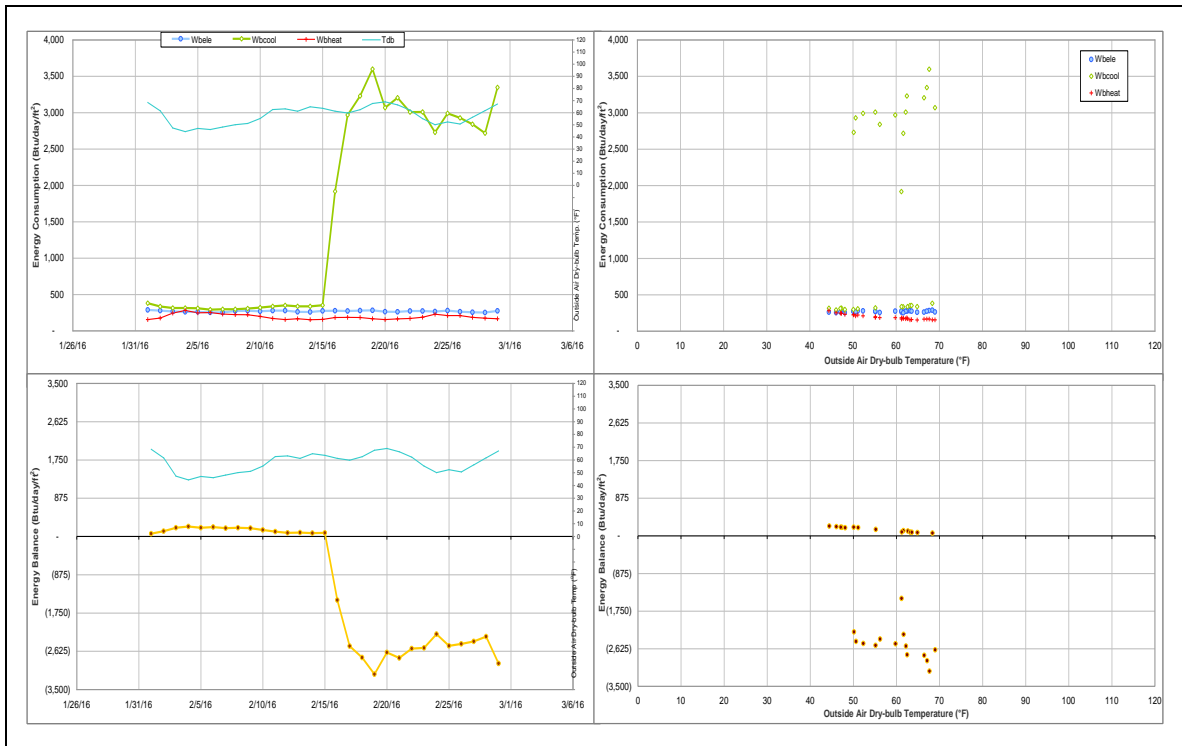
Explanatory Figure: 13 months energy balance plot with original data



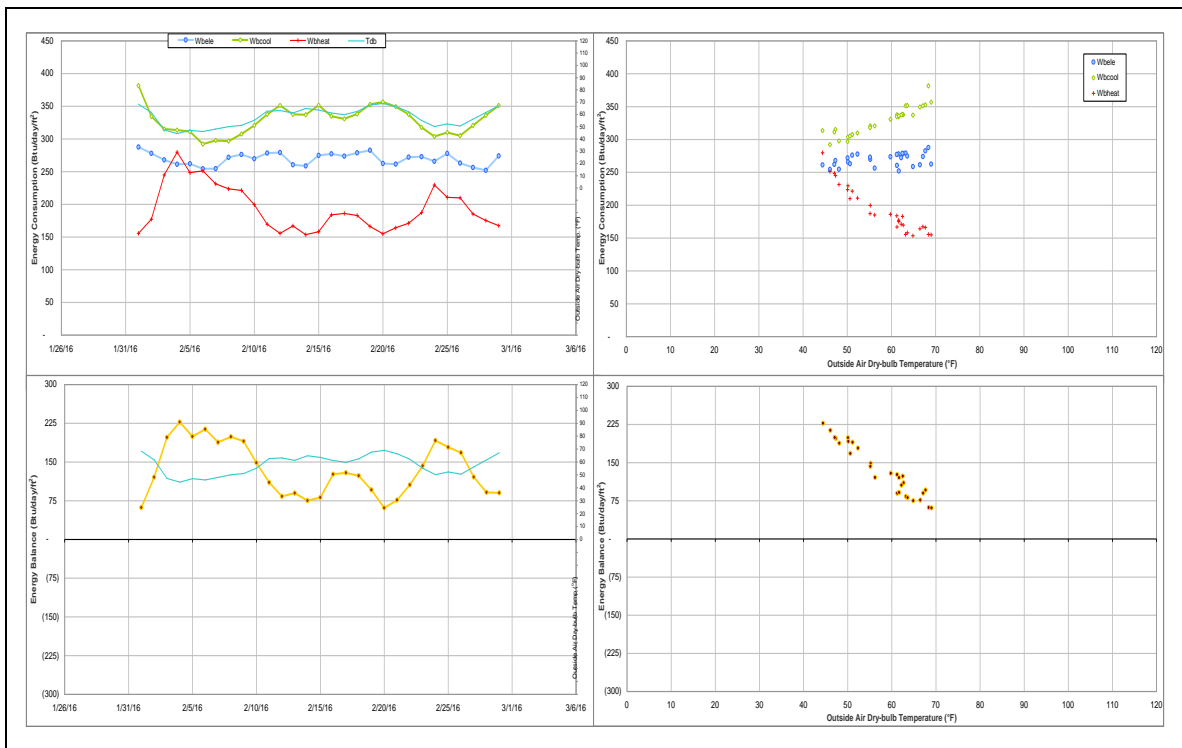
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (CHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Physical Plant Administration & Shops (TAMU Bldg #1156)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|--------------------|-------------------|
| CHW | 007679 | 12 | 2/1/2016-2/12/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--|-----------------------|
| CHW | The consumption increased and the recorded values seemed to be faulty. | 1/12/2016 – 2/12/2016 |

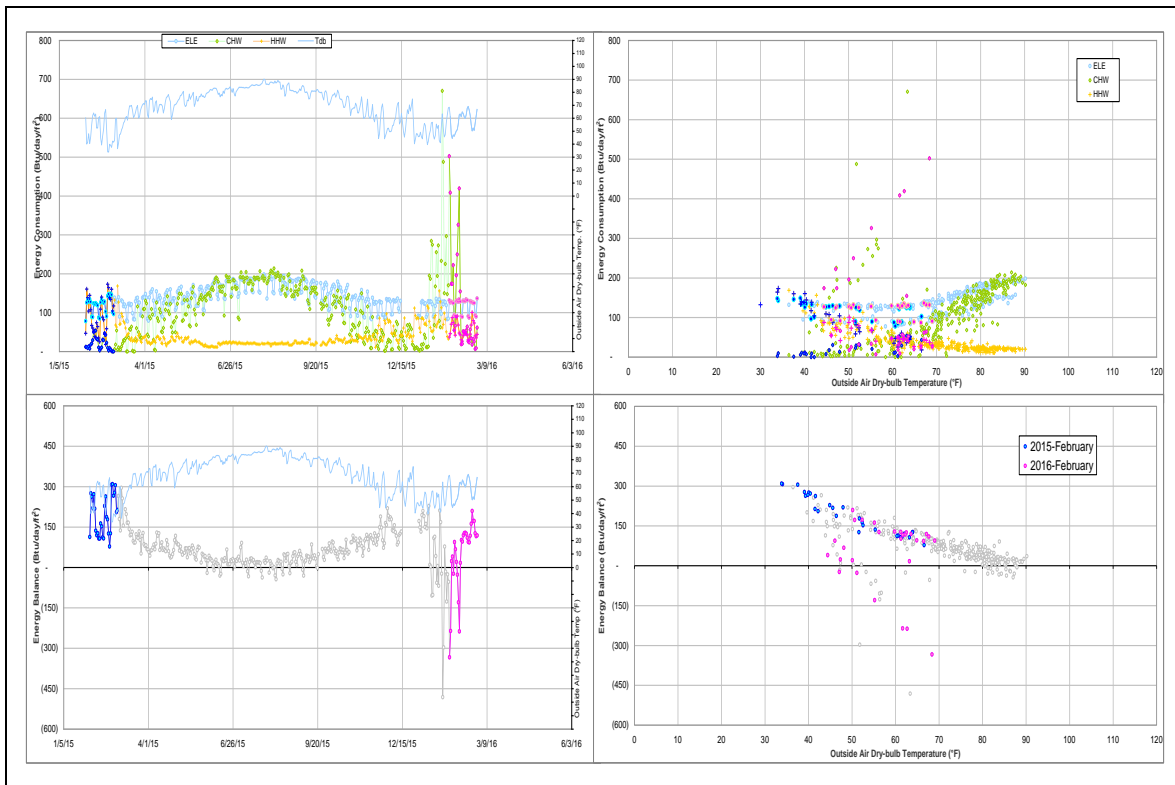
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-----------------------|-----------|---|
| CHW | 007679 | 1/12/2016 – 2/12/2016 | Flow rate | Faulty; Increased and maintained at a constant value |

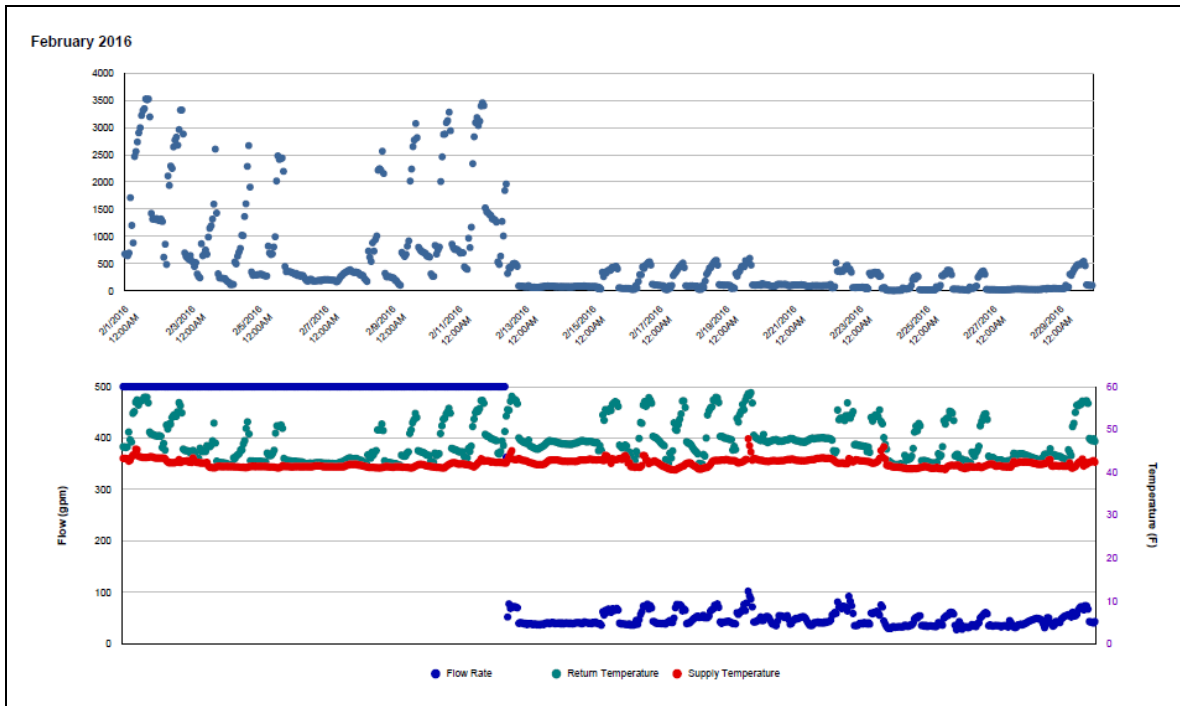
Quantitative descriptions and comments

CHW consumption increased by 200 – 600 Btu/day/ft² since 1/12/2016 because the flow rate increased and maintained at a constant value. The faulty consumption was estimated by a model.

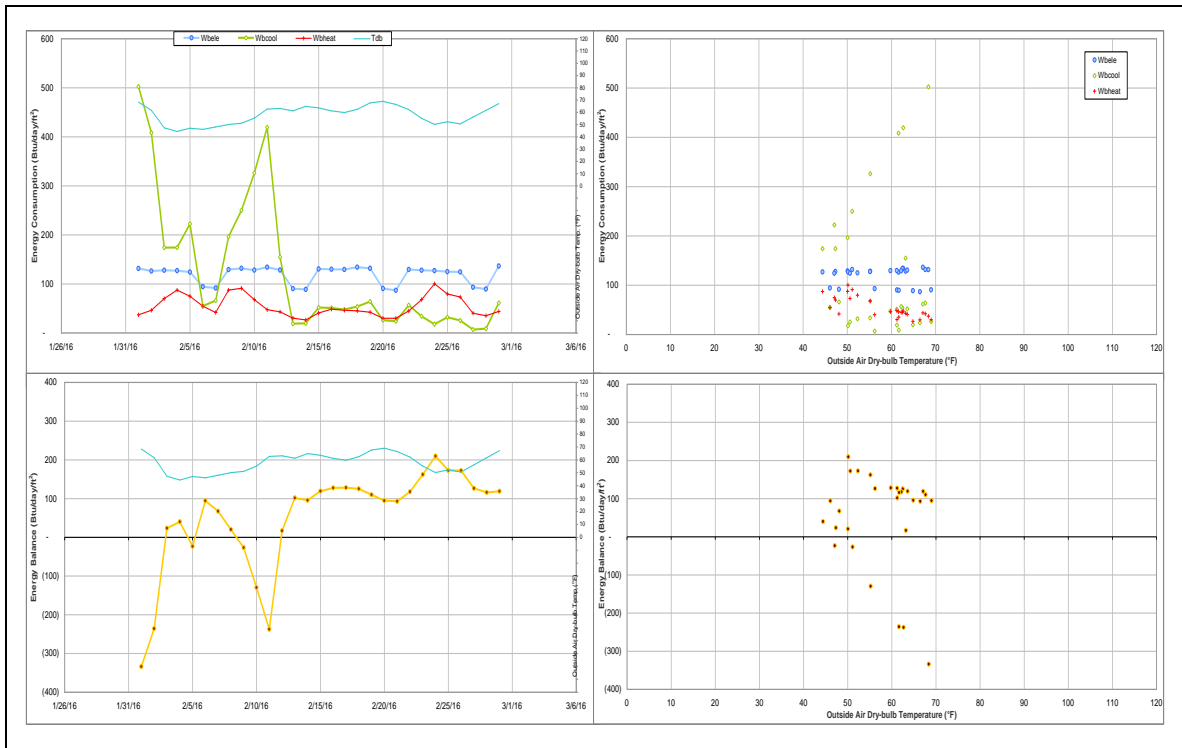
Explanatory Figure: 13 months energy balance plot with original data



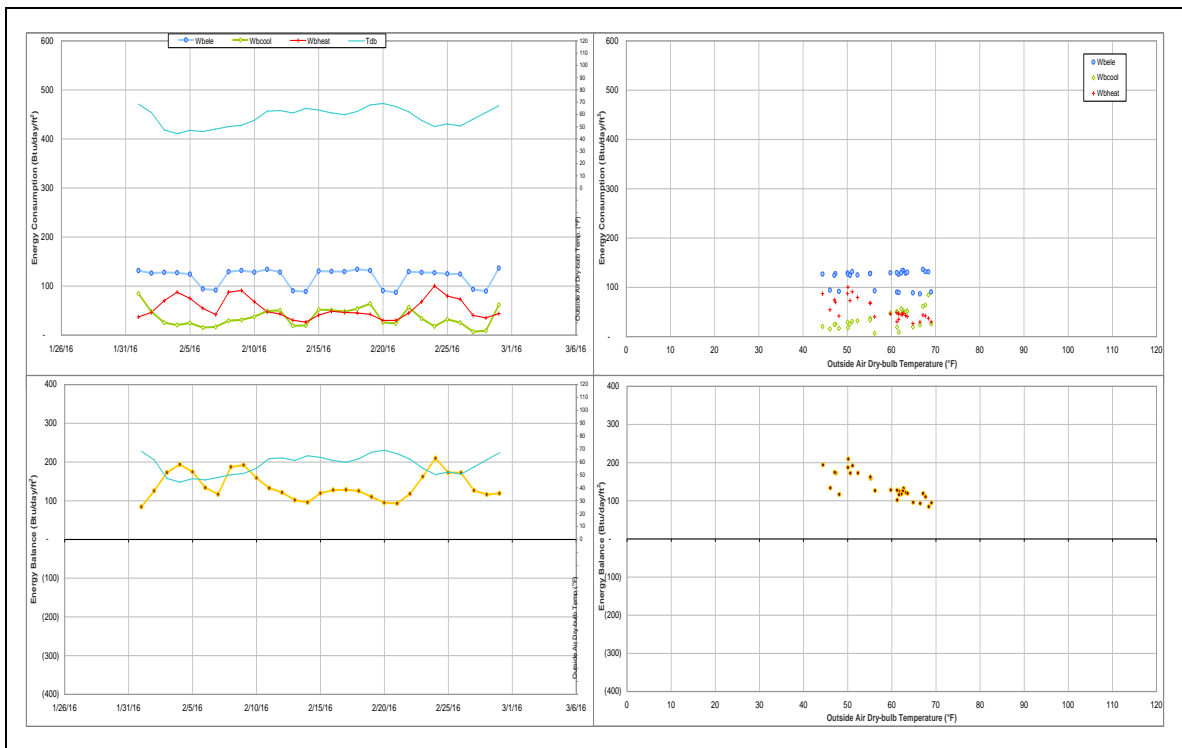
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (CHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Medical Sciences Library (TAMU Bldg #1509)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|--------------------|-------------------|
| HHW | 003781 | 29 | 2/1/2016-2/29/2016 | Model |

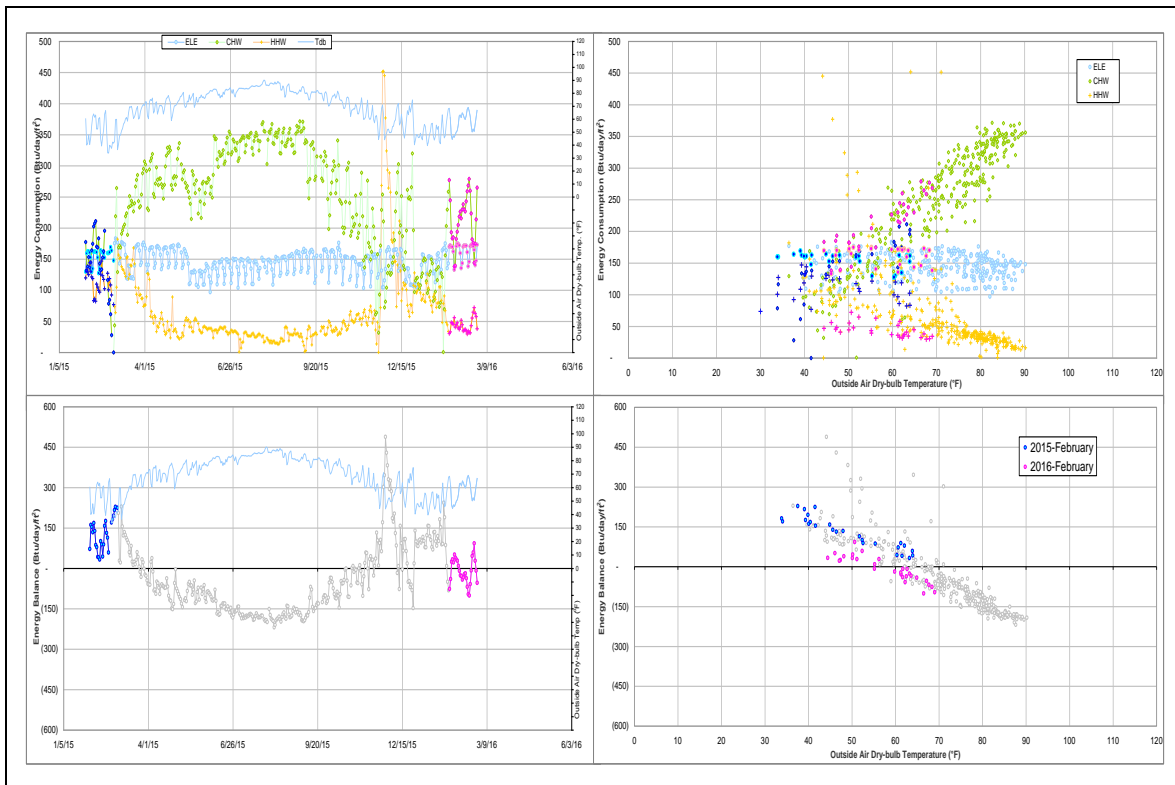
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|--------------------|
| HHW | The consumption level is lower than the level during the past year. | 2/1/2016-2/29/2016 |

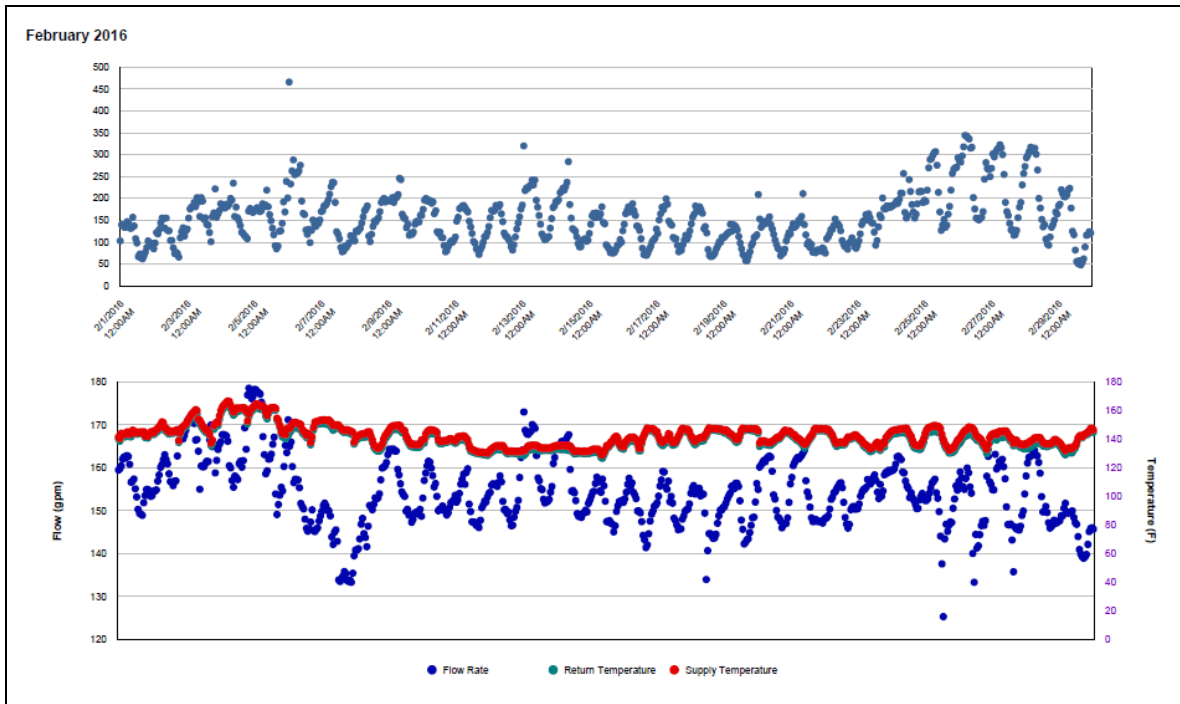
Quantitative descriptions and comments

HHW consumption level for current month is approximately 100 Btu/day/ft² lower than that of same month of last year. The cross-point temperature decreased to around 55°F. The consumption was estimated by a model.

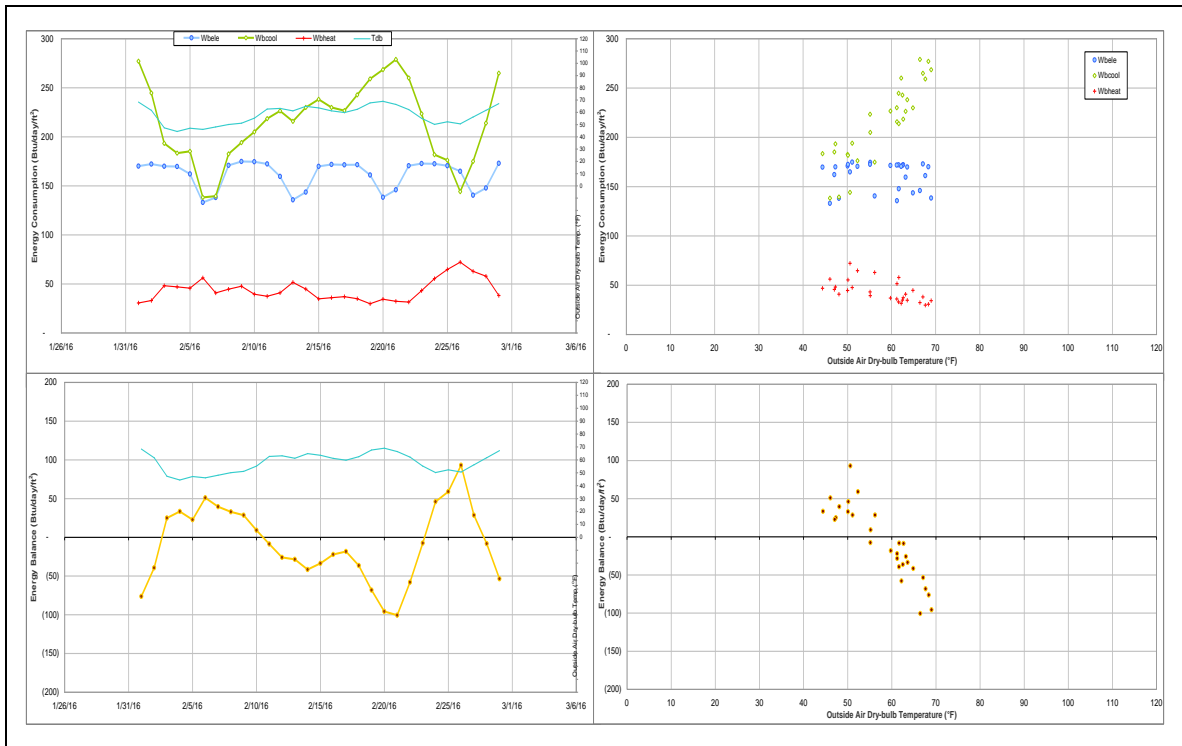
Explanatory Figure: 13 months energy balance plot with original data



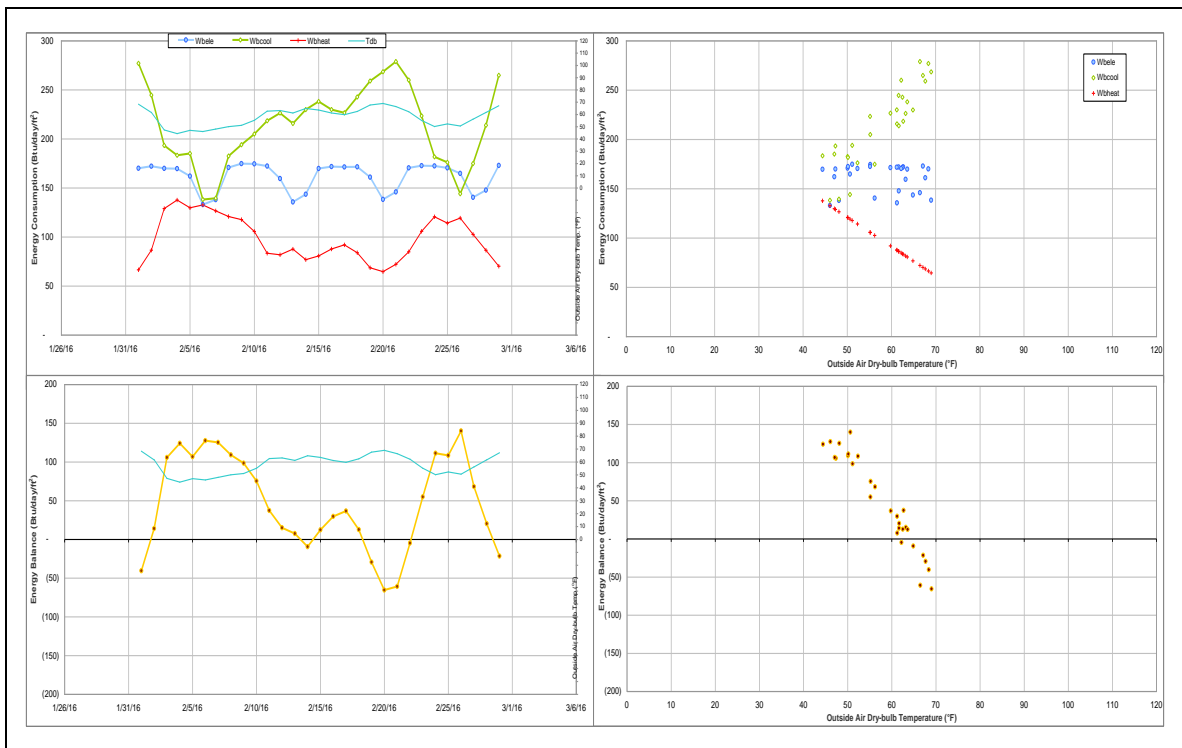
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (HHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Southern Crop Improvement Greenhouse (TAMU Bldg #1512)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|----------------------|-------------------|
| ELE | 005931 | 29 | 2/1/2016 – 2/29/2016 | Model |

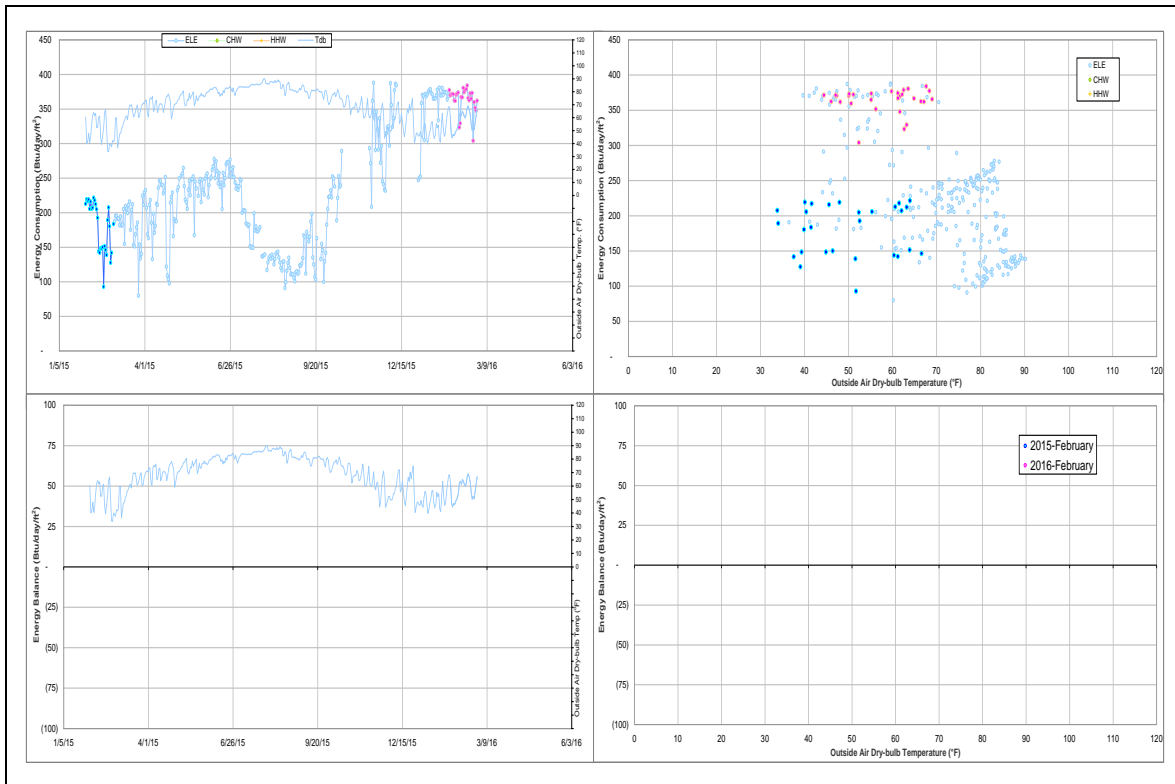
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|-------------------------------|-----------------------|
| ELE | The consumption decreased. | 7/22/2015 – 10/3/2015 |
| | The consumption increased. | 11/13/2015 – ongoing |

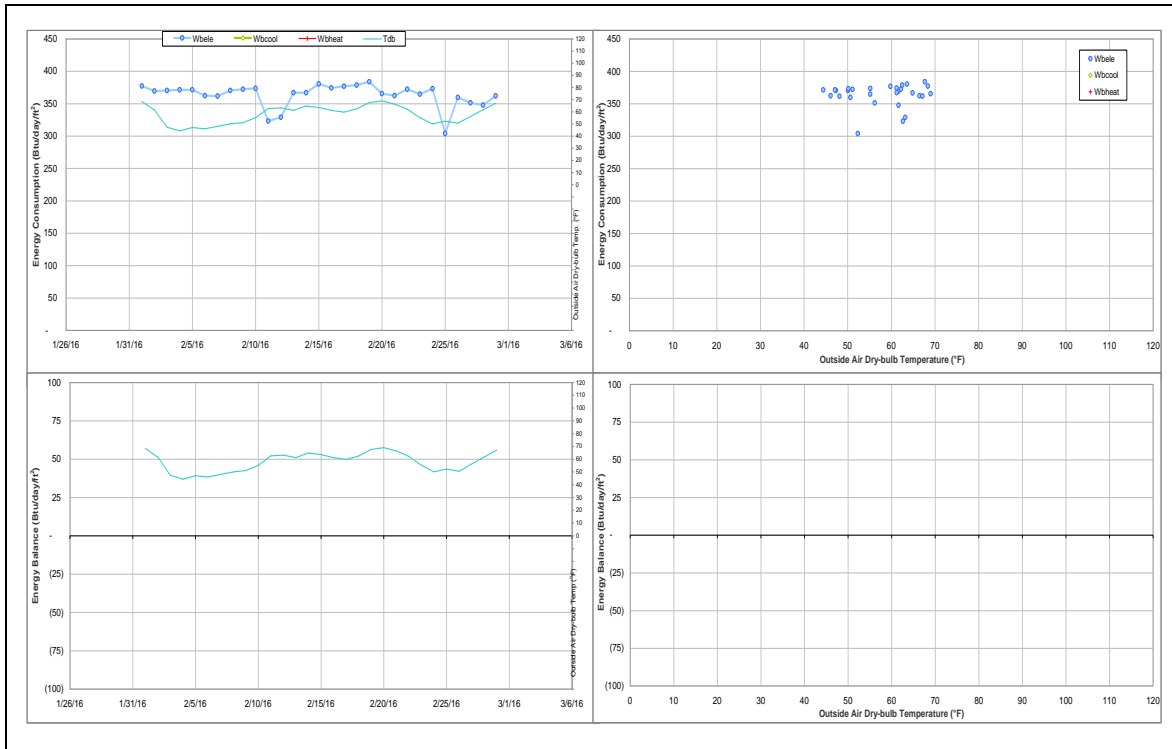
Quantitative descriptions and comments

The electricity consumption gradually decreased by approximately 120 Btu/day/ft² (~50%) since July 2015. It seemed that the building peak demand decreased during this period. The consumption level increased back after 10/3/2015. But it increased largely (50 – 200 Btu/day/ft²) after 11/13/2015. The consumption for entire month was estimated by a model based on the data during 7/1/2014 – 6/30/2015.

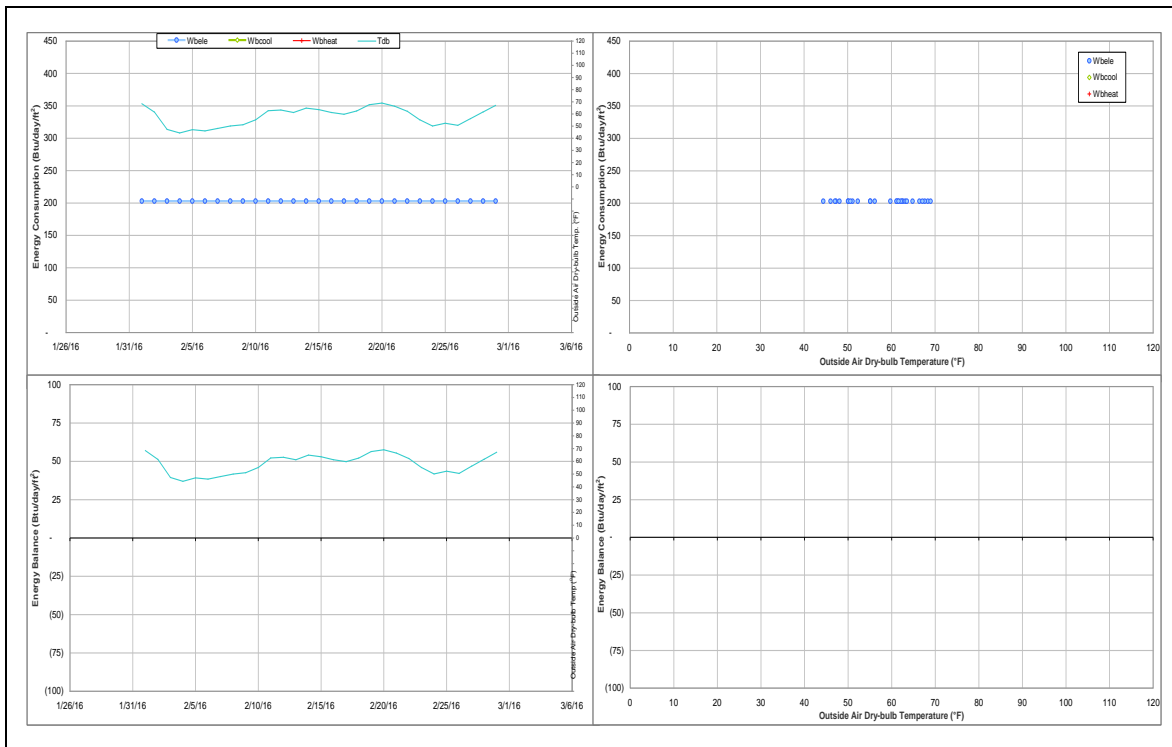
Explanatory Figure: 13 months energy balance plot with original data



Energy balance plot using the original data for the month of analysis.



Energy balance plot using the estimated data for the month of analysis



TX School of Rural Public Health (TAMU Bldg # 1518, 1519, 1520)

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|--------------|--|---------------------|
| ELE (005274) | The consumption level increased largely. | 8/14/2015 - ongoing |
| ELE (005275) | The consumption level decreased largely. | 8/14/2015 - ongoing |

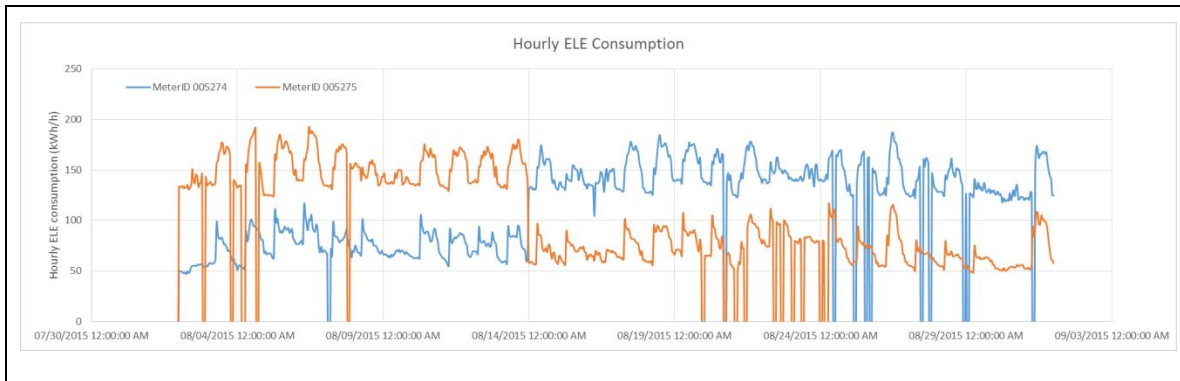
Comments

ELE meter (ID# 005274) is serve for TX School of Rural Public Health B and ELE meter (ID# 005275) is for TX School of Rural Public Health C.

The ELE consumption levels for these two meters have a sudden change on 8/14/2015. The consumption level for meterID 005274 increased by approximate 80 kWh/h (~ 100%) and the consumption level for meter ID 005275 decreased by around 80 kWh/h (~50%).

It was observed that the cumulative reading for these two meters switched on 8/14/2015 12:00 AM. It is suggested to investigate these two meters.

Explanatory Figure: The time series plot of hourly electricity consumption for two ELE meters #005274 and# 005275



Explanatory Figure: The time series plot of hourly electricity consumption for two ELE meters #005274 and# 005275

| Time | Cumulative reading | Hourly Consumption | MeterID | Time | Cumulative reading | Hourly Consumption | MeterID |
|------------------------|--------------------|--------------------|---------|------------------------|--------------------|--------------------|---------|
| 08/13/2015 12:00:00 PM | 2930884.013 | 84.262 | 005274 | 08/13/2015 12:00:00 PM | 4741958.002 | 170.658 | 005275 |
| 08/13/2015 01:00:00 PM | 2930908.589 | 84.576 | 005274 | 08/13/2015 01:00:00 PM | 4742132.336 | 174.354 | 005275 |
| 08/13/2015 02:00:00 PM | 2931051.959 | 83.37 | 005274 | 08/13/2015 02:00:00 PM | 4742303.554 | 171.218 | 005275 |
| 08/13/2015 03:00:00 PM | 2931146.799 | 94.84 | 005274 | 08/13/2015 03:00:00 PM | 4742483.683 | 180.129 | 005275 |
| 08/13/2015 04:00:00 PM | 2931240.505 | 93.709 | 005274 | 08/13/2015 04:00:00 PM | 4742662.753 | 179.07 | 005275 |
| 08/13/2015 05:00:00 PM | 2931324.169 | 83.664 | 005274 | 08/13/2015 05:00:00 PM | 4742832.309 | 169.256 | 005275 |
| 08/13/2015 06:00:00 PM | 2931399.91 | 75.741 | 005274 | 08/13/2015 06:00:00 PM | 4742993.53 | 161.521 | 005275 |
| 08/13/2015 07:00:00 PM | 2931472.181 | 72.271 | 005274 | 08/13/2015 07:00:00 PM | 4743149.675 | 156.145 | 005275 |
| 08/13/2015 08:00:00 PM | 2931543.838 | 71.657 | 005274 | 08/13/2015 08:00:00 PM | 4743305.9 | 156.225 | 005275 |
| 08/13/2015 09:00:00 PM | 2931613.306 | 69.468 | 005274 | 08/13/2015 09:00:00 PM | 4743462.087 | 156.197 | 005275 |
| 08/13/2015 10:00:00 PM | 2931672.706 | 59.4 | 005274 | 08/13/2015 10:00:00 PM | 4743610.221 | 148.124 | 005275 |
| 08/13/2015 11:00:00 PM | 2931733.072 | 60.366 | 005274 | 08/13/2015 11:00:00 PM | 4743745.645 | 135.424 | 005275 |
| 08/14/2015 12:00:00 AM | 4743876.03 | 130.385 | 005274 | 08/14/2015 12:00:00 AM | 2931791.19 | 58.118 | 005275 |
| 08/14/2015 01:00:00 AM | 4744008.406 | 132.376 | 005274 | 08/14/2015 01:00:00 AM | 2931649.35 | 58.16 | 005275 |
| 08/14/2015 02:00:00 AM | 4744141.74 | 133.354 | 005274 | 08/14/2015 02:00:00 AM | 2931808.534 | 59.184 | 005275 |
| 08/14/2015 03:00:00 AM | 4744272.553 | 130.813 | 005274 | 08/14/2015 03:00:00 AM | 2931966.686 | 58.152 | 005275 |
| 08/14/2015 04:00:00 AM | 4744404.045 | 131.492 | 005274 | 08/14/2015 04:00:00 AM | 2932023.589 | 56.903 | 005275 |
| 08/14/2015 05:00:00 AM | 4744534.38 | 130.335 | 005274 | 08/14/2015 05:00:00 AM | 2932080.05 | 56.461 | 005275 |
| 08/14/2015 06:00:00 AM | 4744667.111 | 132.731 | 005274 | 08/14/2015 06:00:00 AM | 2932137.05 | 57 | 005275 |
| 08/14/2015 07:00:00 AM | 4744800.038 | 152.927 | 005274 | 08/14/2015 07:00:00 AM | 2932232.983 | 95.933 | 005275 |
| 08/14/2015 08:00:00 AM | 4744972.221 | 152.183 | 005274 | 08/14/2015 08:00:00 AM | 2932319.162 | 86.179 | 005275 |
| 08/14/2015 09:00:00 AM | 4745134.467 | 162.246 | 005274 | 08/14/2015 09:00:00 AM | 2932404.691 | 85.529 | 005275 |
| 08/14/2015 10:00:00 AM | 4745308.905 | 174.438 | 005274 | 08/14/2015 10:00:00 AM | 2932489.976 | 85.285 | 005275 |
| 08/14/2015 11:00:00 AM | 4745476.832 | 167.927 | 005274 | 08/14/2015 11:00:00 AM | 2932564.419 | 74.443 | 005275 |
| 08/14/2015 12:00:00 PM | 4745634.44 | 157.608 | 005274 | 08/14/2015 12:00:00 PM | 2932634.064 | 69.645 | 005275 |
| 08/14/2015 01:00:00 PM | 4745789.345 | 154.905 | 005274 | 08/14/2015 01:00:00 PM | 2932704.723 | 70.659 | 005275 |
| 08/14/2015 02:00:00 PM | 4745949.369 | 160.024 | 005274 | 08/14/2015 02:00:00 PM | 2932777.973 | 72.65 | 005275 |
| 08/14/2015 03:00:00 PM | 4746110.346 | 160.977 | 005274 | 08/14/2015 03:00:00 PM | 2932845.908 | 68.535 | 005275 |
| 08/14/2015 04:00:00 PM | 4746270.903 | 160.557 | 005274 | 08/14/2015 04:00:00 PM | 2932920.525 | 74.617 | 005275 |
| 08/14/2015 05:00:00 PM | 4746431.347 | 160.444 | 005274 | 08/14/2015 05:00:00 PM | 2932996.835 | 76.31 | 005275 |
| 08/14/2015 06:00:00 PM | 4746586.415 | 155.068 | 005274 | 08/14/2015 06:00:00 PM | 2933065.918 | 68.883 | 005275 |
| 08/14/2015 07:00:00 PM | 4746727.476 | 141.061 | 005274 | 08/14/2015 07:00:00 PM | 2933127.559 | 62.041 | 005275 |
| 08/14/2015 08:00:00 PM | 4746864.372 | 136.896 | 005274 | 08/14/2015 08:00:00 PM | 2933195.384 | 67.825 | 005275 |
| 08/14/2015 09:00:00 PM | 4747004.372 | 140 | 005274 | 08/14/2015 09:00:00 PM | 2933263.632 | 68.248 | 005275 |
| 08/14/2015 10:00:00 PM | 4747137.886 | 133.514 | 005274 | 08/14/2015 10:00:00 PM | 2933333.26 | 59.629 | 005275 |
| 08/14/2015 11:00:00 PM | 4747269.569 | 131.683 | 005274 | 08/14/2015 11:00:00 PM | 2933382.3 | 59.04 | 005275 |

Reed Arena (TAMU Bldg #1554)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|--------------------|-------------------|
| ELE | 006243 | 29 | 2/1/2016-2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|------------------------------------|------------------|
| ELE | The consumption decreased largely. | 2/1/2016-ongoing |

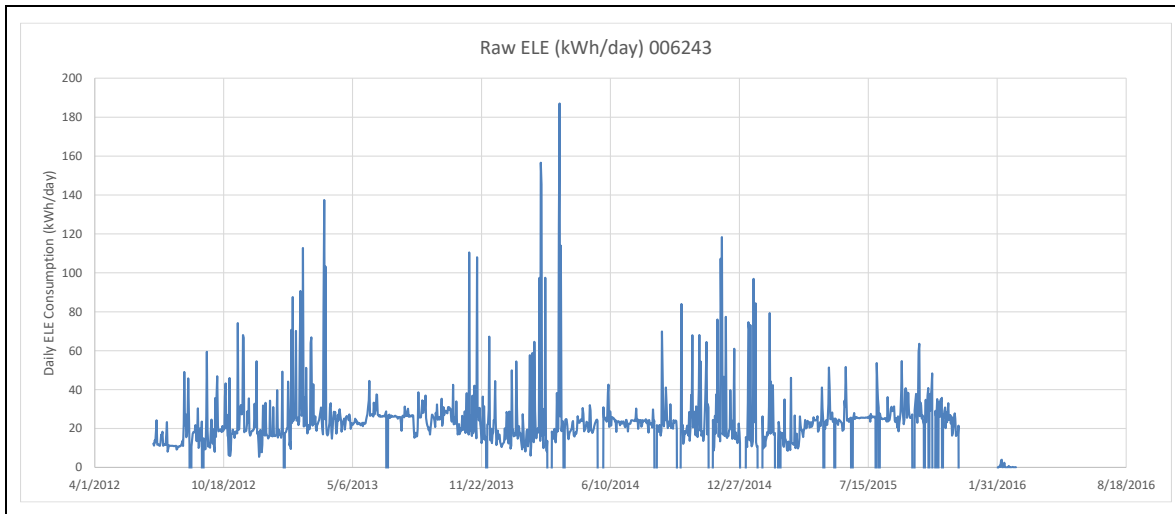
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-------------------|-----------|-------------------|
| HHW | 004327 | 2/19/2016-ongoing | Flow rate | Decreased to zero |

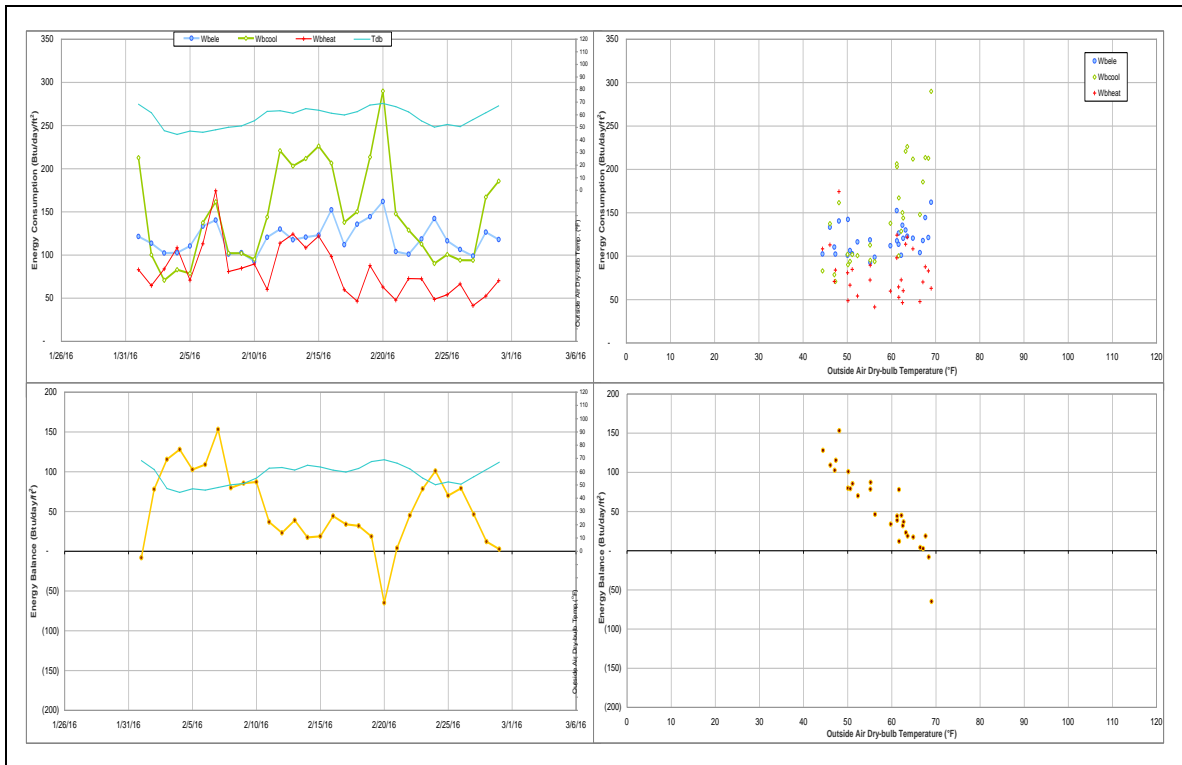
Quantitative descriptions and comments

There are three ELE meters for this building. The consumption for one of them (ELE MID 006243) only counts for around 0.3% of total ELE consumption for this building. The consumption for ELE MID 006243 decreased to nearly zero since this month. However, it doesn't affect the energy balance. The consumption was estimated by a model.

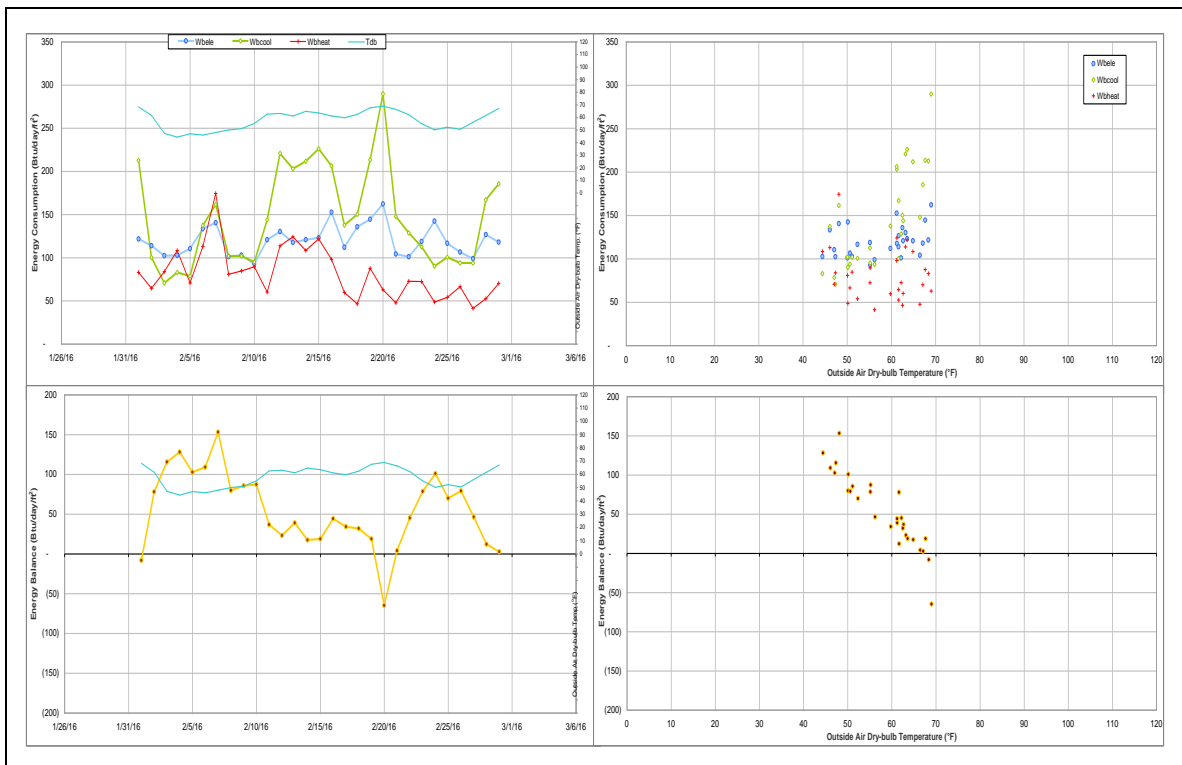
Explanatory Figure: Time series plot for ELE meter 006243



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



West Campus Parking Garage (TAMU Bldg #1559)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|---------------------|-------------------|
| HHW | 004327 | 11 | 2/19/2016-2/29/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|------------------------------------|-------------------|
| HHW | The consumption decreased largely. | 2/19/2016-ongoing |

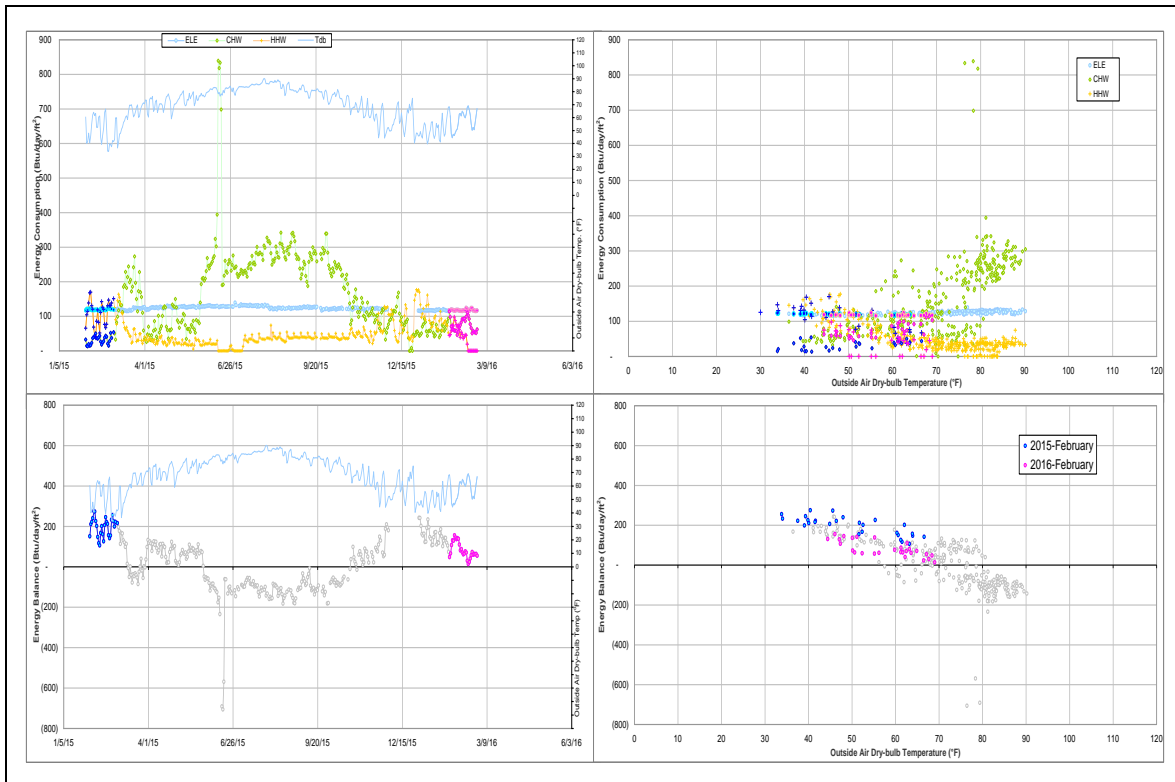
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-------------------|-----------|-------------------|
| HHW | 004327 | 2/19/2016-ongoing | Flow rate | Decreased to zero |

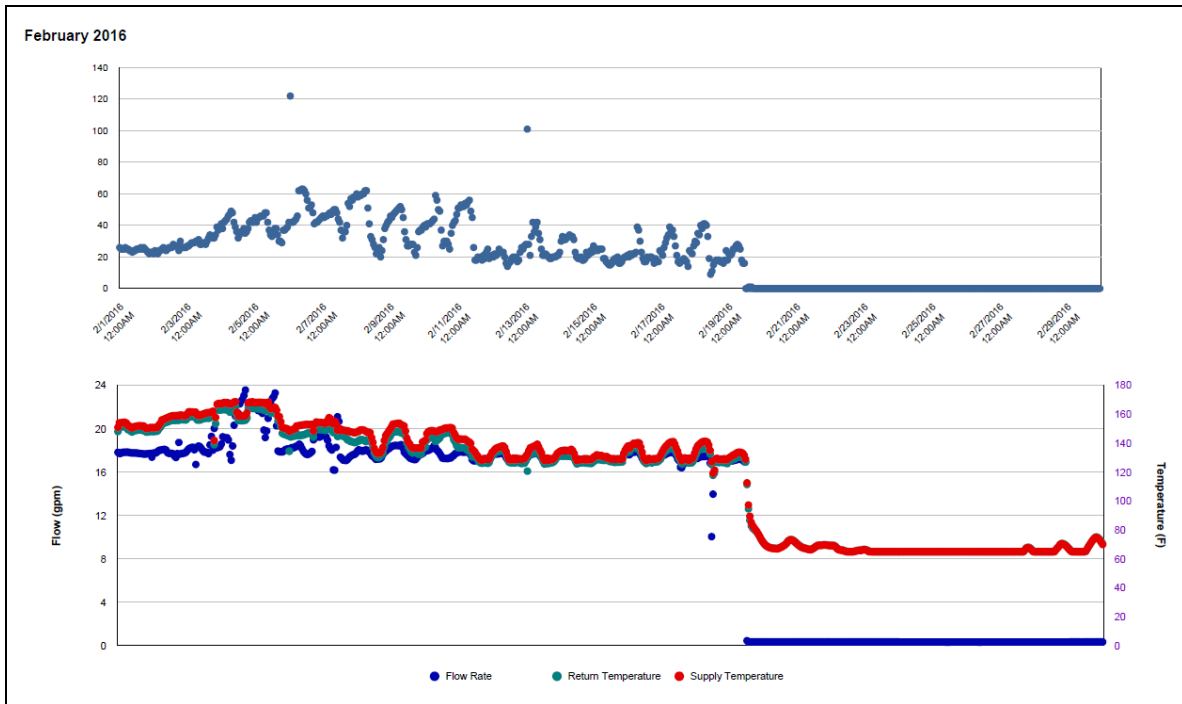
Quantitative descriptions and comments

HHW consumption decreased largely and was recorded as zero since 2/19/2016 due to zero reading of flow rate. The decreased consumption was estimated by a model.

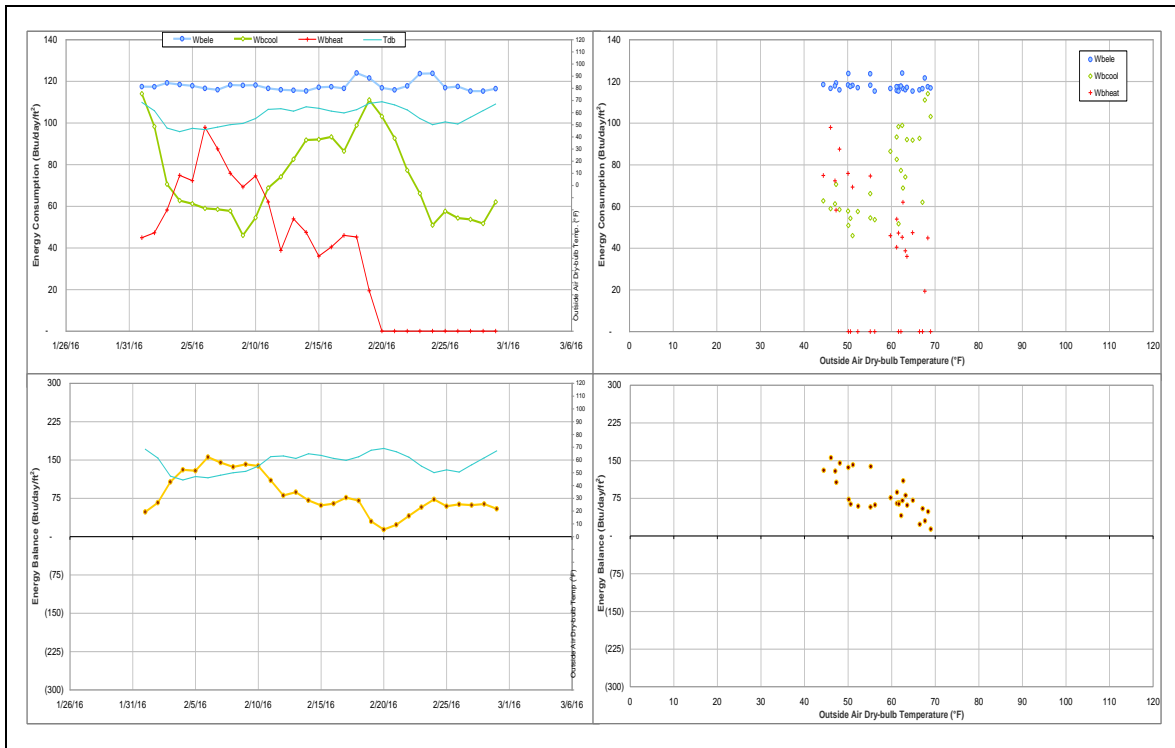
Explanatory Figure: 13 months energy balance plot with original data



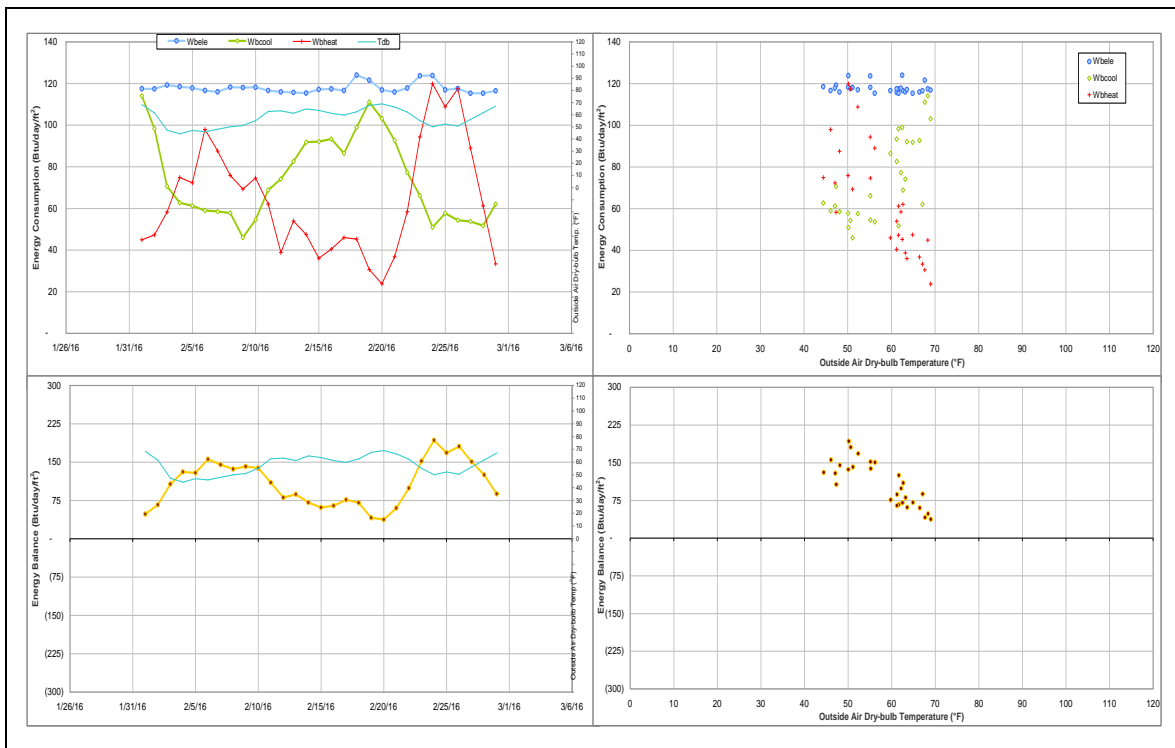
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (HHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Office of the State Chemist Building (TAMU Bldg #1810)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|---------------------|-------------------|
| ELE | 009073 | 29 | 2/1/2016 -2/29/2016 | Factor |

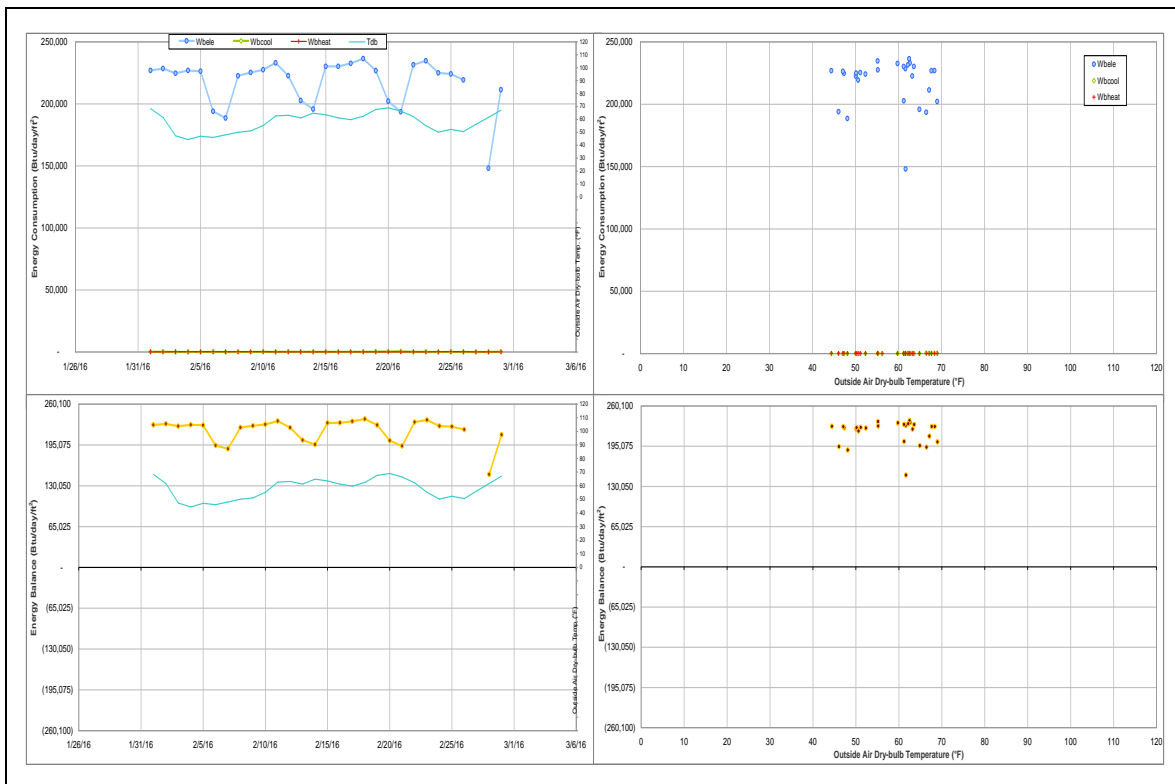
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--|--------------------|
| ELE | The consumption level seemed to be too high. The metered values appear to be faulty. | 2/1/2016 – ongoing |

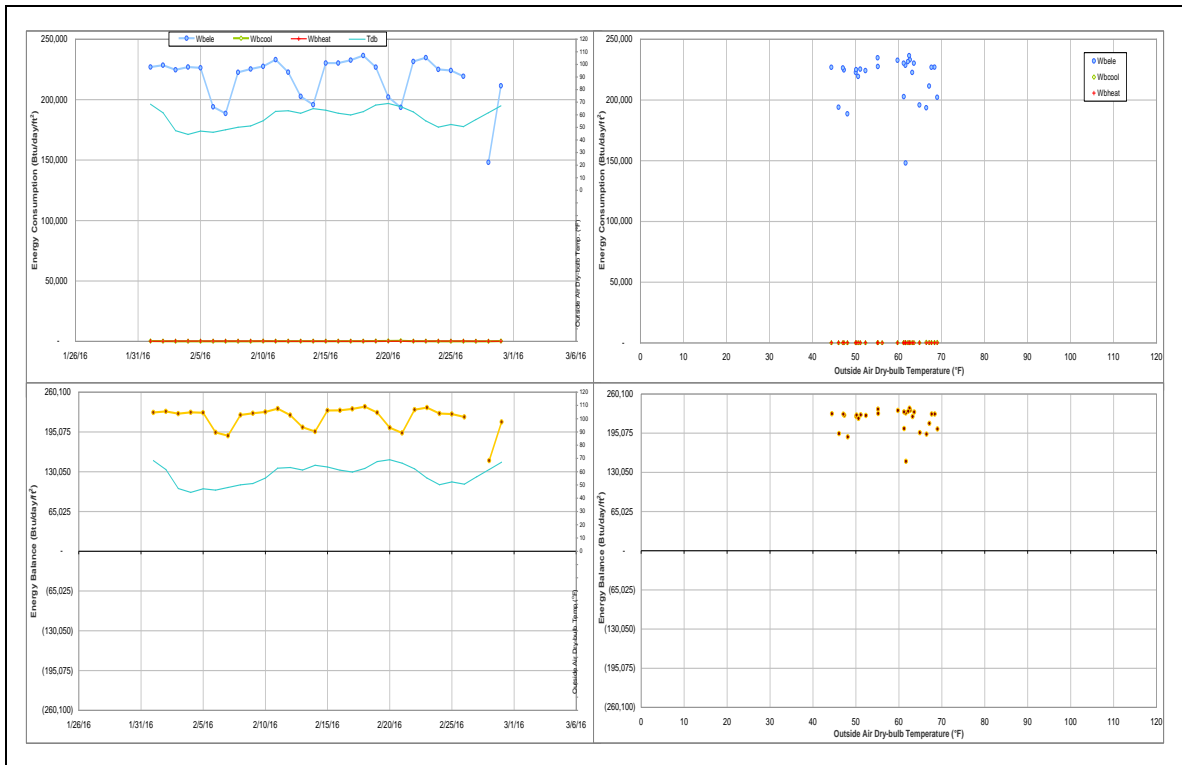
Quantitative descriptions and comments

The ELE MID 005438 was replaced with MID this month. The new MID 009073 covers the entire building plus expansion. The area before expansion is 21,735 ft². The official square footage for expansion part is not available now, but we were told it should be close to 10,000 ft². However, the daily consumption for current month is around 1000 times greater than previous month. Usually the unit for ELE is kilowatt. For this one, the unit seems to be watt. It is suggested to investigate this meter.

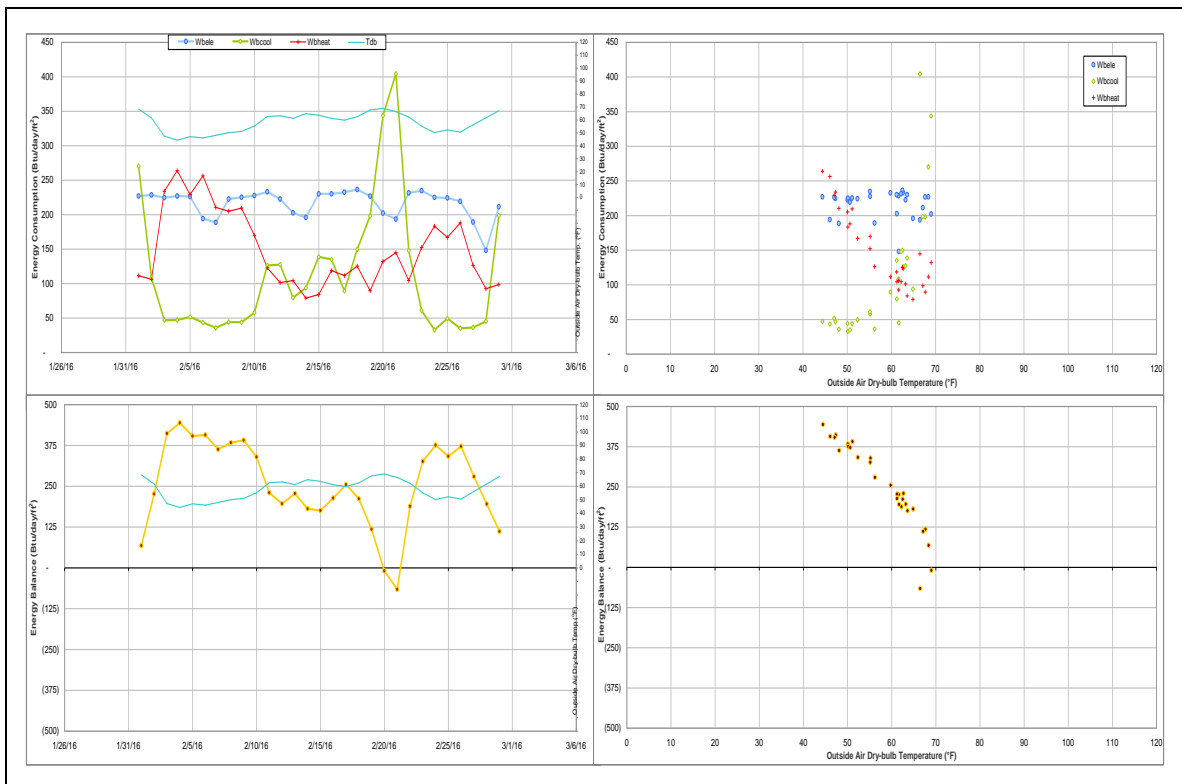
Explanatory Figure: 13 months energy balance plot with original data



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis.



Texas Institute for Genomic Medicine (TAMU Bldg #1900)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-------------------|-------------------|
| HHW | 005546 | 5 | 2/1/2016-2/5/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--------------------------------------|-------------------|
| HHW | The consumption seemed to be faulty. | 2/1/2016-2/5/2016 |

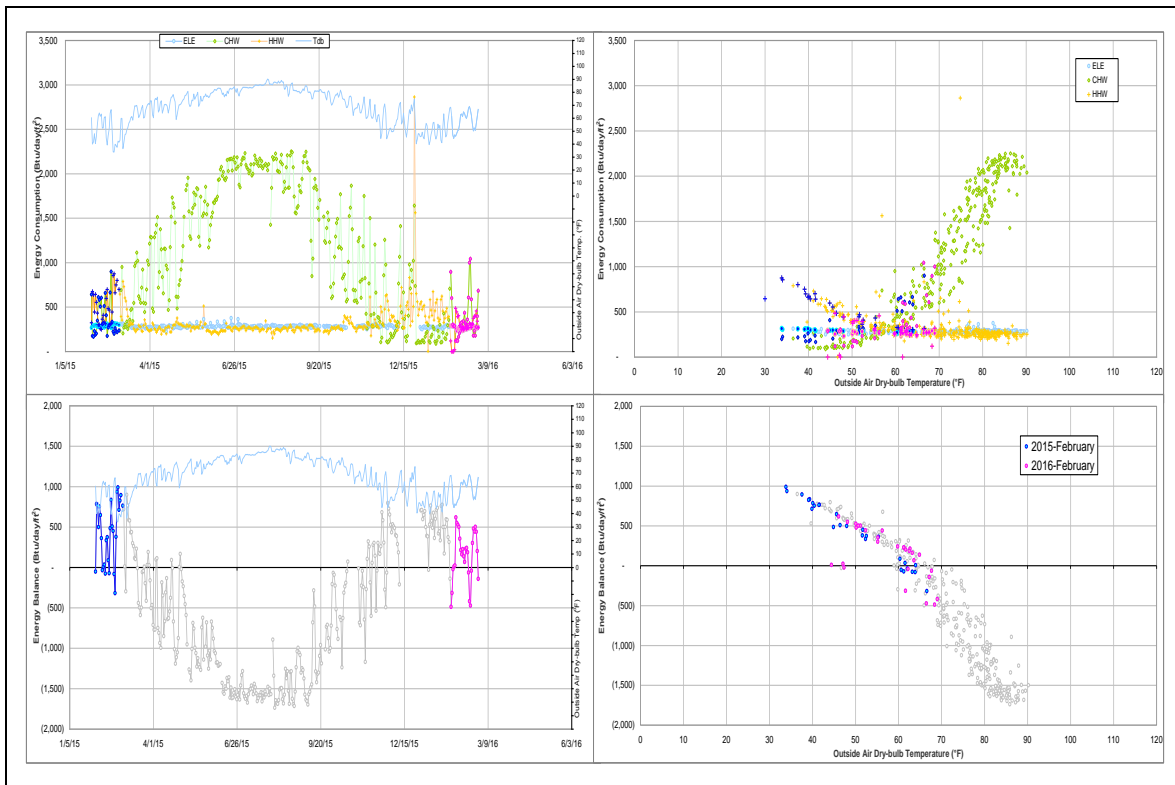
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-------------------|-----------|---|
| HHW | 006366 | 2/1/2016-2/5/2016 | Flow rate | Faulty; Decreased and maintained at a constant value |

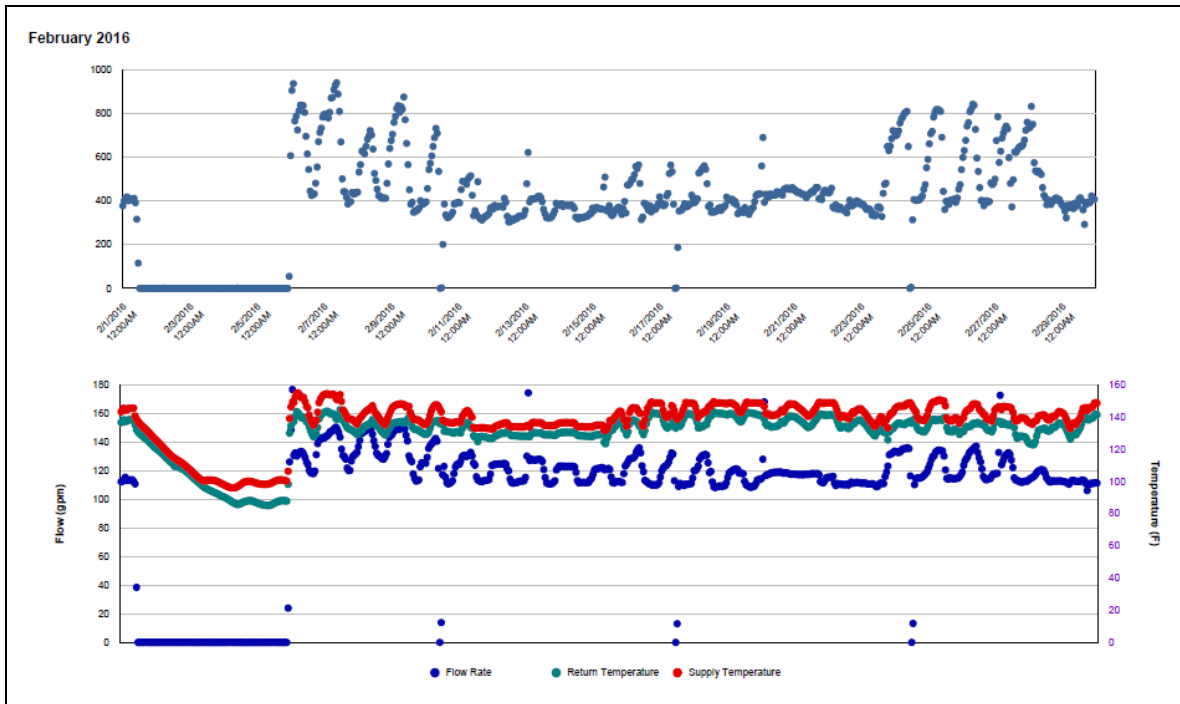
Quantitative descriptions and comments

HHW consumption decreased suddenly and was recorded as zero during 2/1/2016 – 2/5/2016 because the flow rate decreased and maintained at a constant value. The faulty consumption was estimated by a model.

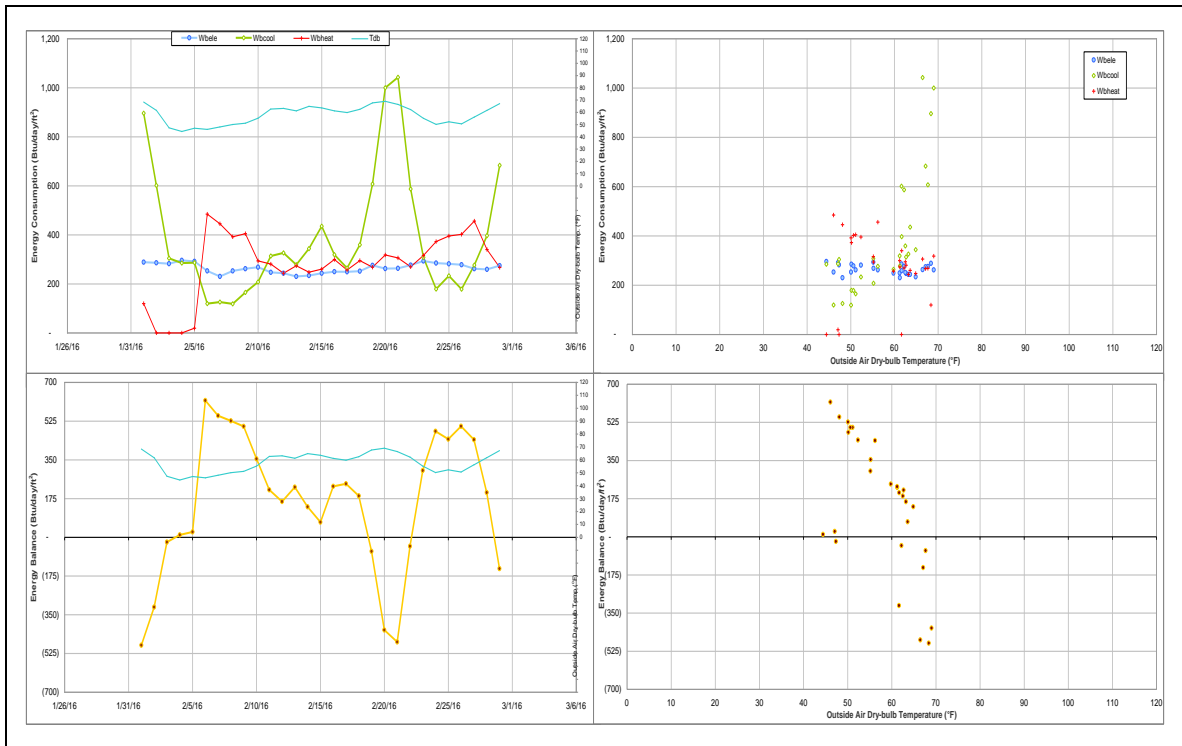
Explanatory Figure: 13 months energy balance plot with original data



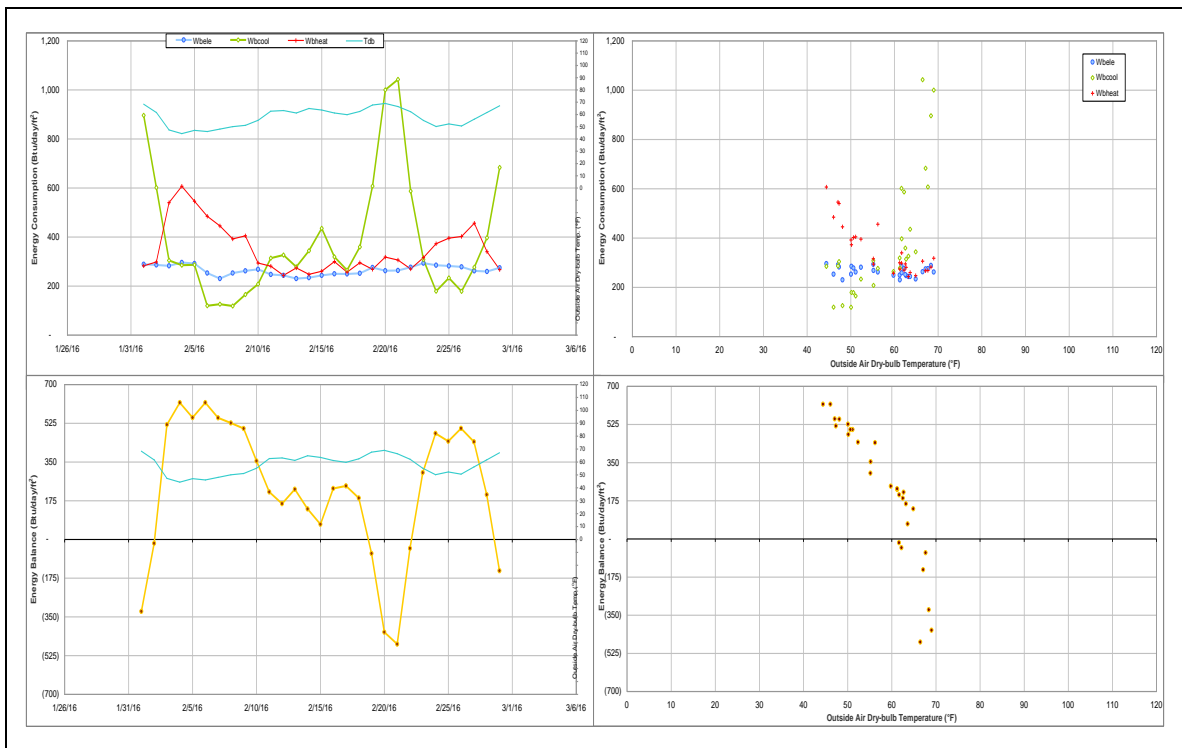
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (HHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



Texas A&M Institute for Preclinical Studies A (TAMU Bldg #1904)

Estimated data

| Energy Type | Meter ID | Number of Days | Period | Estimation Method |
|-------------|----------|----------------|-------------------|-------------------|
| HHW | 006366 | 5 | 2/1/2016-2/5/2016 | Model |

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|--------------------------------------|-------------------|
| HHW | The consumption seemed to be faulty. | 2/1/2016-2/5/2016 |

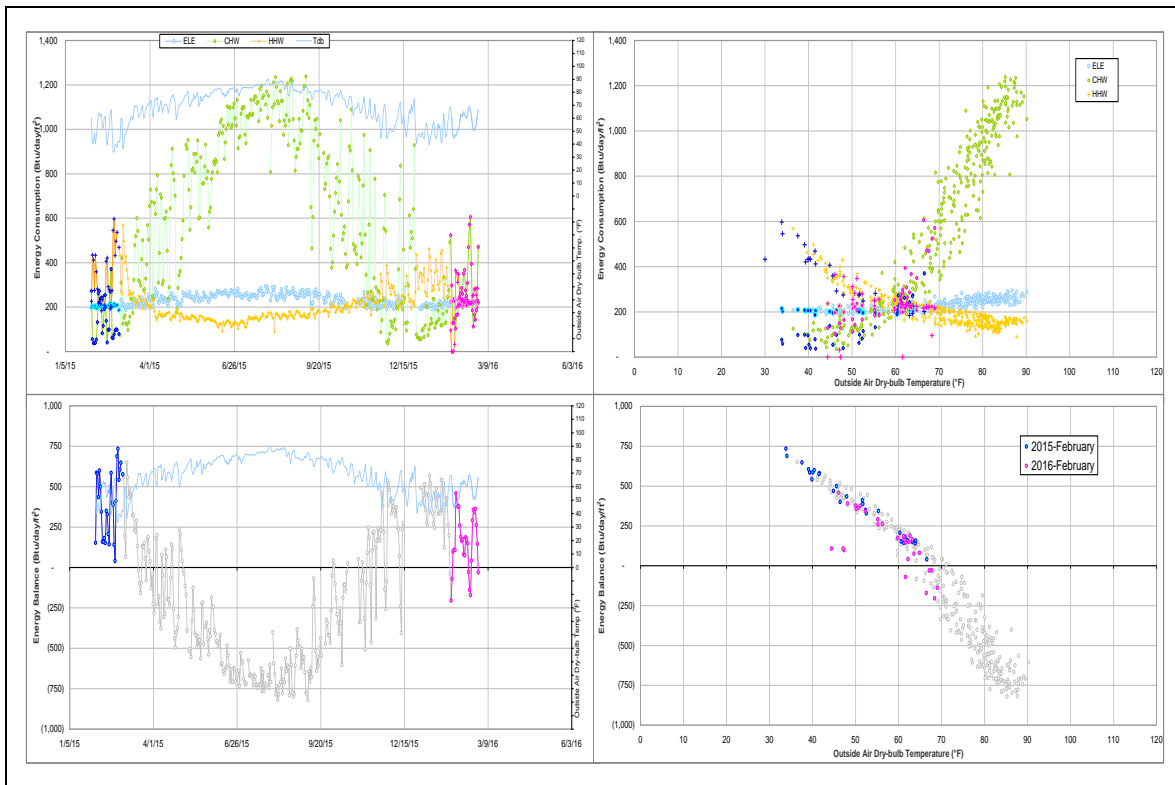
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|-------------------|-----------|---|
| HHW | 006366 | 2/1/2016-2/5/2016 | Flow rate | Faulty; Decreased and maintained at a constant value |

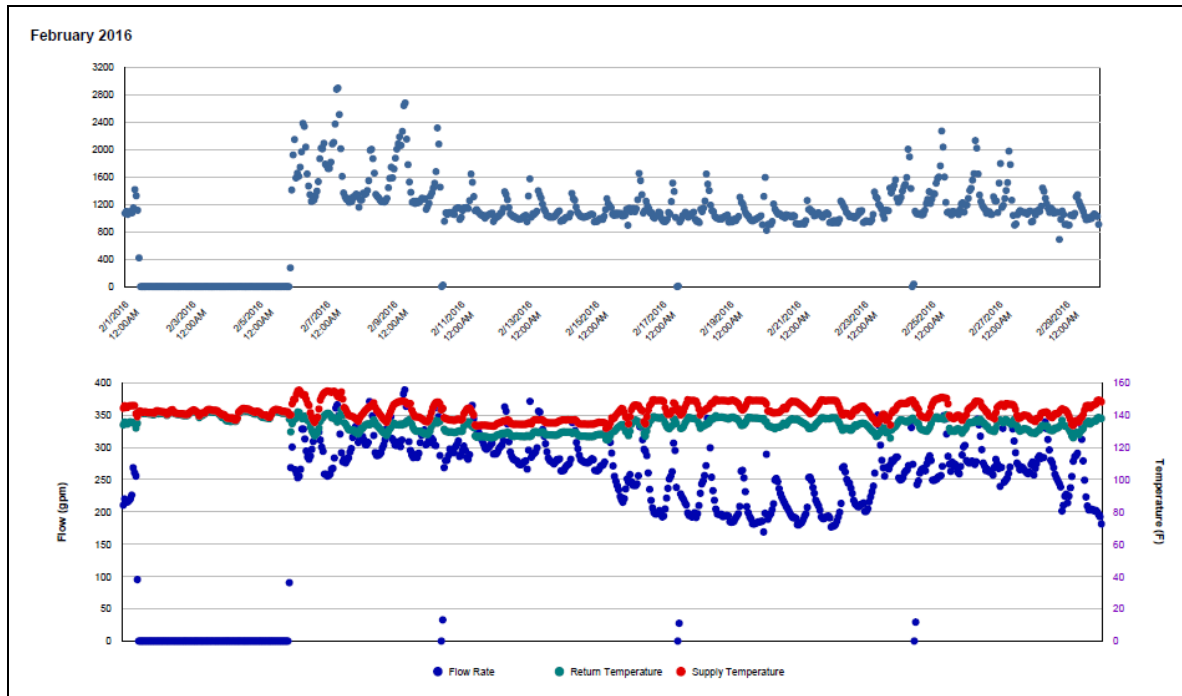
Quantitative descriptions and comments

HHW consumption decreased suddenly and was recorded as zero during 2/1/2016 – 2/5/2016 because the flow rate decreased and maintained at a constant value. The faulty consumption was estimated by a model.

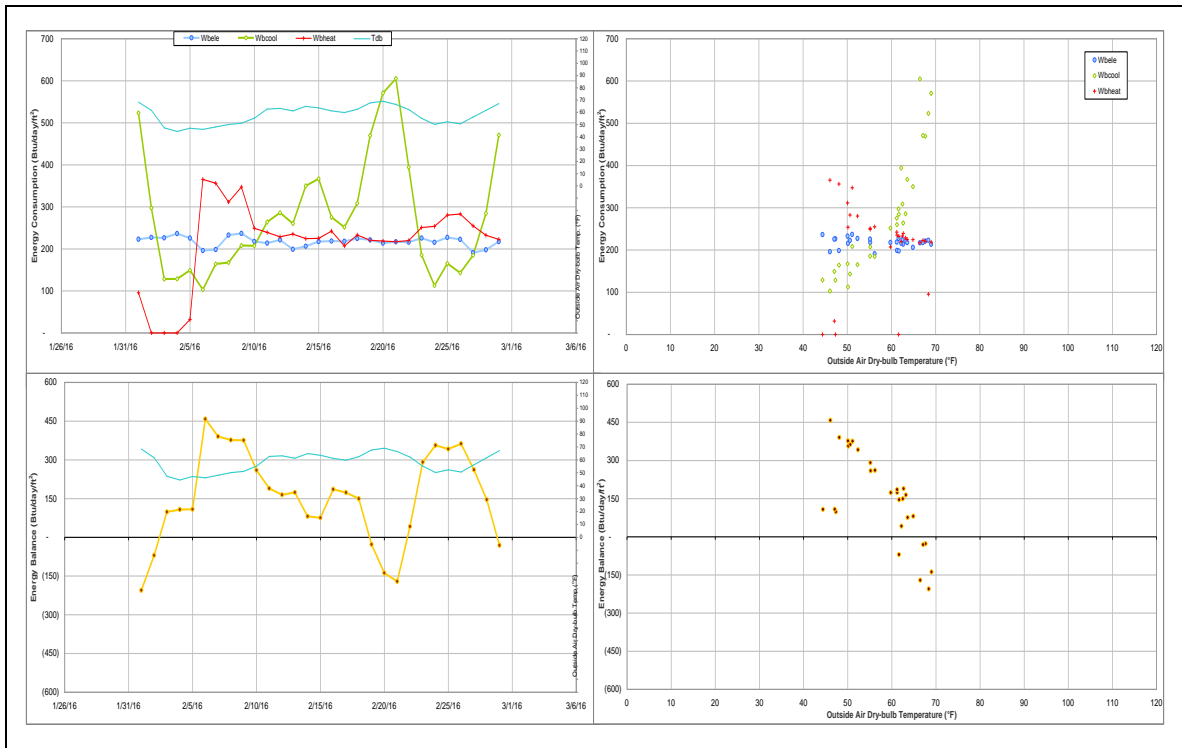
Explanatory Figure: 13 months energy balance plot with original data



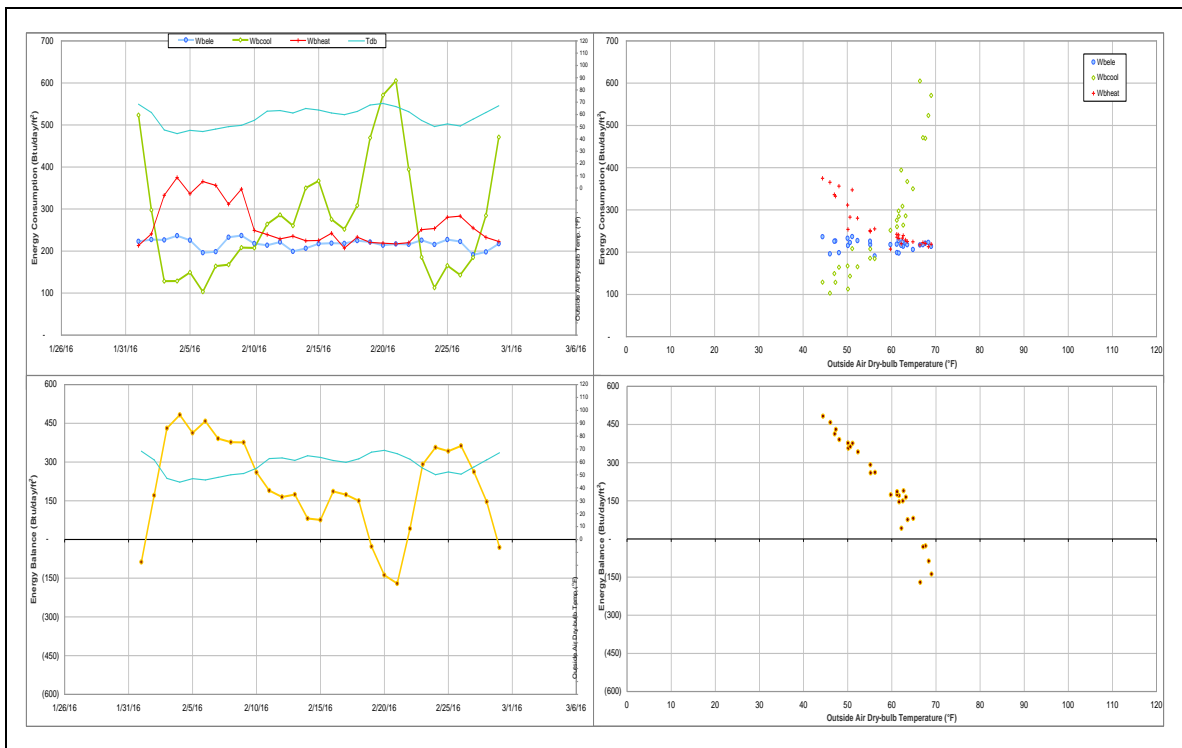
Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (HHW meter February 2016)



Energy balance plot using the original data for the month of analysis. Missing data have been filled in, if any.



Energy balance plot using the estimated data for the month of analysis



II-3 Meters with Significant Issues in Energy Consumption Data

In this section, significant issues in the data behavior are described. On the contrary to the section II–2, alternative consumption is not estimated for some reasons: presence of continuous problems since the beginning of the data acquisition, unbalanced energy uses in the past data, changes in the consumption patterns without evidence of data problems, etc. Table II–3 gives a list of meters included in this section.

Table II-3 Meters with significant issues in the consumption data during February 2016

| Building No. | Building Name | MeterID | Type | Building No. | Building Name | Meter | Type |
|--------------|--|---------|------|--------------|--|--------|------|
| 291 | Rudder Residence Hall | 002132 | CHW | 499 | Engineering Innovation Center | 002672 | CHW |
| | | 002136 | HHW | | | 002683 | HHW |
| 293 | Appelt Residence Hall | 002062 | CHW | 506 | Nagle Hall | 001484 | ELE |
| | | 002066 | HHW | 511 | Heep Laboratory Building | 005821 | CHW |
| 294 | Lechner Residence Hall | 000004 | ELE | | | 005825 | HHW |
| | | 002285 | CHW | 524 | Blocker building | 002918 | HHW |
| | | 002289 | HHW | 880 | TVMC-Small Animal Building | 005962 | HHW |
| 353 | Bright Aerospace Building | 002746 | CHW | 1026 | Veterinary Medicine Administration | 006053 | HHW |
| | | 002757 | HHW | 1146 | Biological Control Facility | 005795 | ELE |
| 394 | Underwood Residence Hall | 002117 | CHW | | | 005891 | HHW |
| | | 002121 | HHW | 1156 | Physical Plant Administration & Shops | 007679 | CHW |
| 433 | Mosher Residence Hall | 009083 | ELE | 1197 | Veterinary Research Building | 006355 | ELE |
| 446 | Rudder Theatre Complex | 002977 | ELE | | | 006359 | ELE |
| | | 004297 | CHW | 1501 | Kleberg Center | 002624 | CHW |
| | | 004309 | HHW | 1559 | West Campus Parking Garage | 004322 | CHW |
| 454 | MSC | 007420 | ELE | 1601 | International Ocean Discovery Building | 008144 | CHW |
| 463 | Psychology Building | 002941 | CHW | 1604 | Offshore Technology Research Center | 006660 | ELE |
| 467 | Biological Sciences Building - East | 001543 | ELE | 1611 | Engineering Research Building | 008462 | ELE |
| | | 003851 | CHW | | | 008463 | CHW |
| | | 003862 | HHW | | | 008467 | HHW |
| 492 | Civil Engineering Building | 005950 | CHW | 10226 | NCTM Manufacturing Building | 007652 | ELE |
| 496 | Utilities & Energy Services Central Office | 007706 | ELE | | | | |
| | | 006929 | CHW | | | | |
| | | 006933 | HHW | | | | |

Rudder Hall (TAMU Bldg #291)

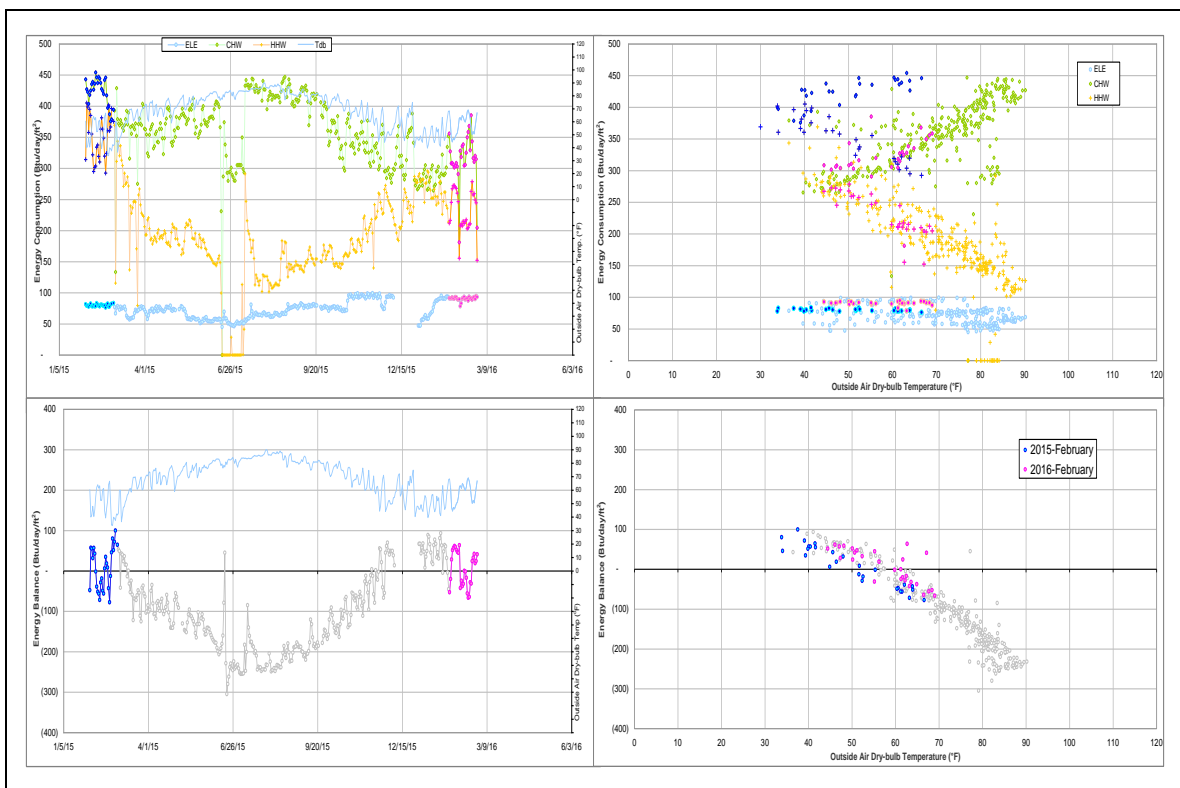
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|-------------------|
| Energy Balance | The energy balance level is low. The cross-point temperature is around 55°F. | For several years |

Comments

This building has a low level of energy balance load with the cross-point temperature below 55°F. The low E_{BL} level suggests imbalance of metered energy use in the building, but we are not able to determine the cause.

Explanatory Figure: 13 months energy balance plot with original data



Appelt Residence Hall (TAMU Bldg #293)

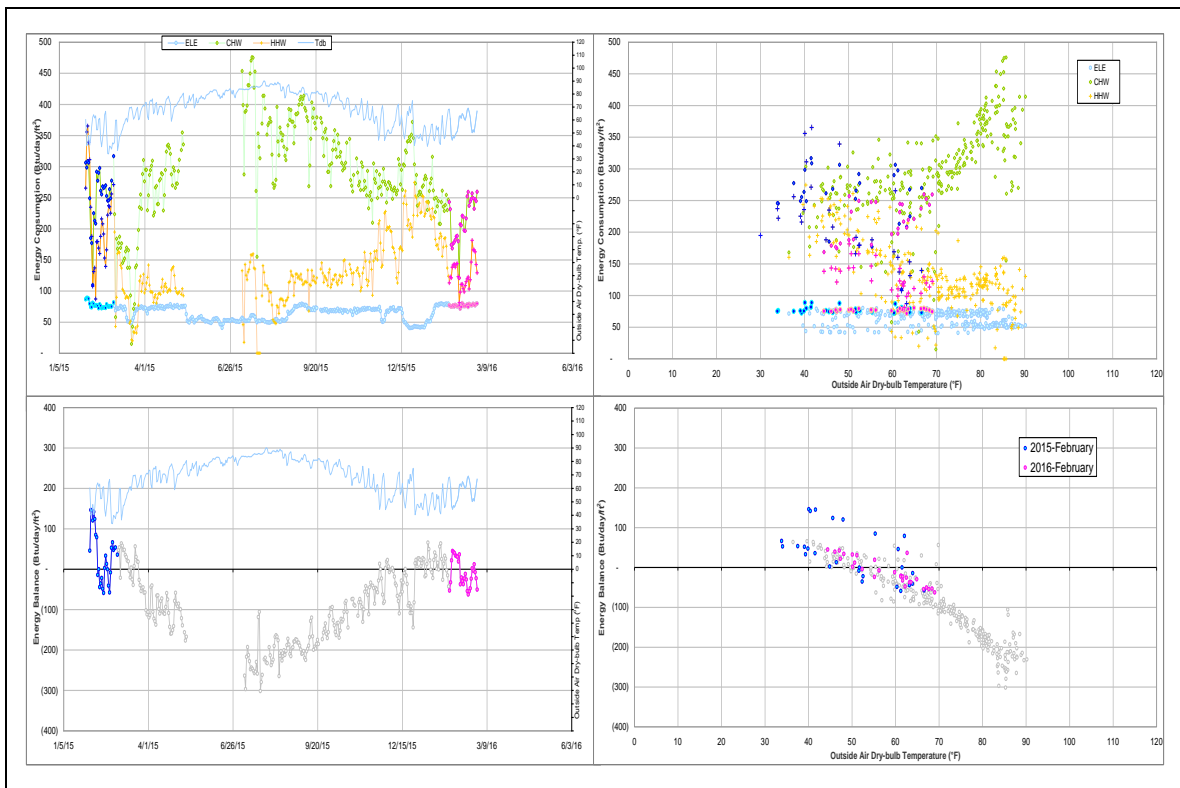
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|---------------------|
| CHW | The consumption level suddenly decreased. | Since December 2014 |
| HHW | The consumption gradually decreased. | Since January 2015 |
| Energy Balance | The energy balance decreased and the cross-point temperature is around 55°F. | Since January 2015 |

Comments

Both the CHW and HHW consumption levels have decreased, respectively. As a result, the energy balance load was low with the cross-point temperature around 55°F. The low E_{BL} level suggests imbalance of metered energy use in the building, but we are not able to determine the cause.

Explanatory Figure: 13 months energy balance plot with original data



Lechner Residence Hall (TAMU Bldg #294)

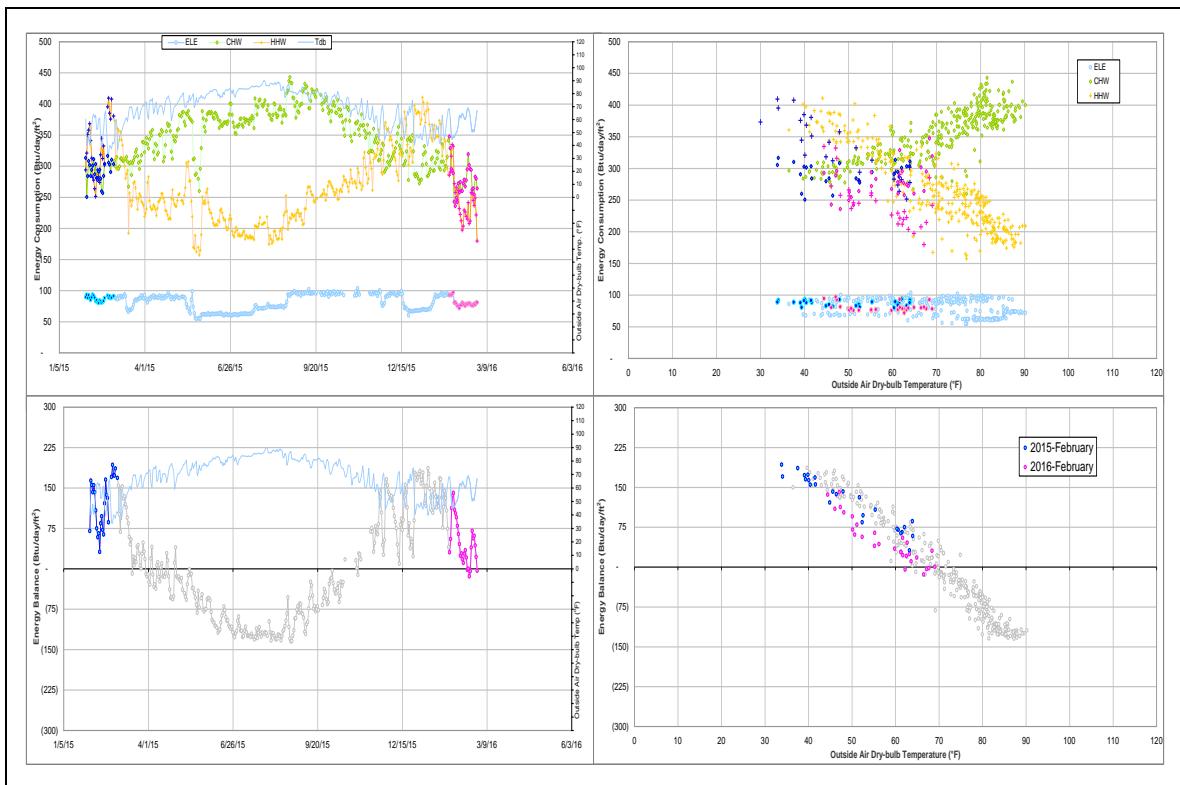
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|---------------|---|-------------------|
| ELE, CHW, HHW | The consumption level suddenly decreased. | 2/7/2016 -ongoing |

Comments

All energy consumption levels suddenly decreased at the first week of February 2016. No obvious metering issue were observed. The energy balance is still in reasonable range. The change of building operation might be the reason to cause this decrease.

Explanatory Figure: 13 months energy balance plot with original data



Bright Building (TAMU Bldg #353)

Detected issues in the energy balance and/or the consumption data

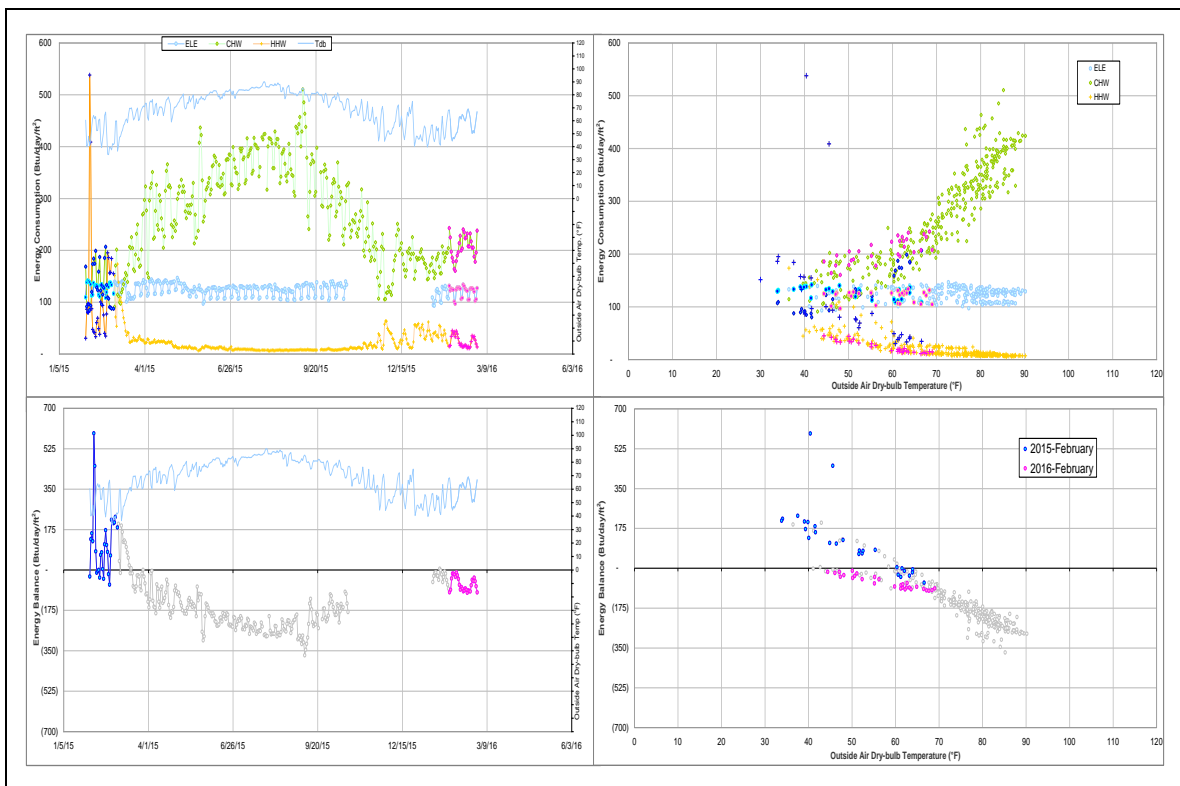
| Data Type | Description of data behaviors | Period |
|----------------|---|------------------------------|
| Energy Balance | The energy balance level has been low for years. The cross-point temperature was in the range of 40- 70 °F. | For several years |
| | The energy balance level increased to more reasonable level. | October 2014 – December 2015 |
| | The energy balance level decreased. | January 2016 - ongoing |

Comments

The energy balance load (E_{BL}) of this building has been low and the cross-point temperature was around 50°F for years. The electricity use level was in a typical range for office and classroom buildings on campus. Therefore, either CHW or HHW consumption might be causing the unbalanced energy balance in the building.

The CHW consumption gradually decreased since October 2014. It made the energy balance shifted to more reasonable range and the temperature at $E_{BL} = 0$ was 60°F. The CHW increased gradually since January 2016 and the HHW consumption for current month is lower than the same month of last year. As a result, the energy balance decreased with the cross point temperature lower than 50°F.

Explanatory Figure: 13 months energy balance plot with original data



Underwood Hall (TAMU BLDG # 394)

Detected issues in the energy balance and/or the consumption data

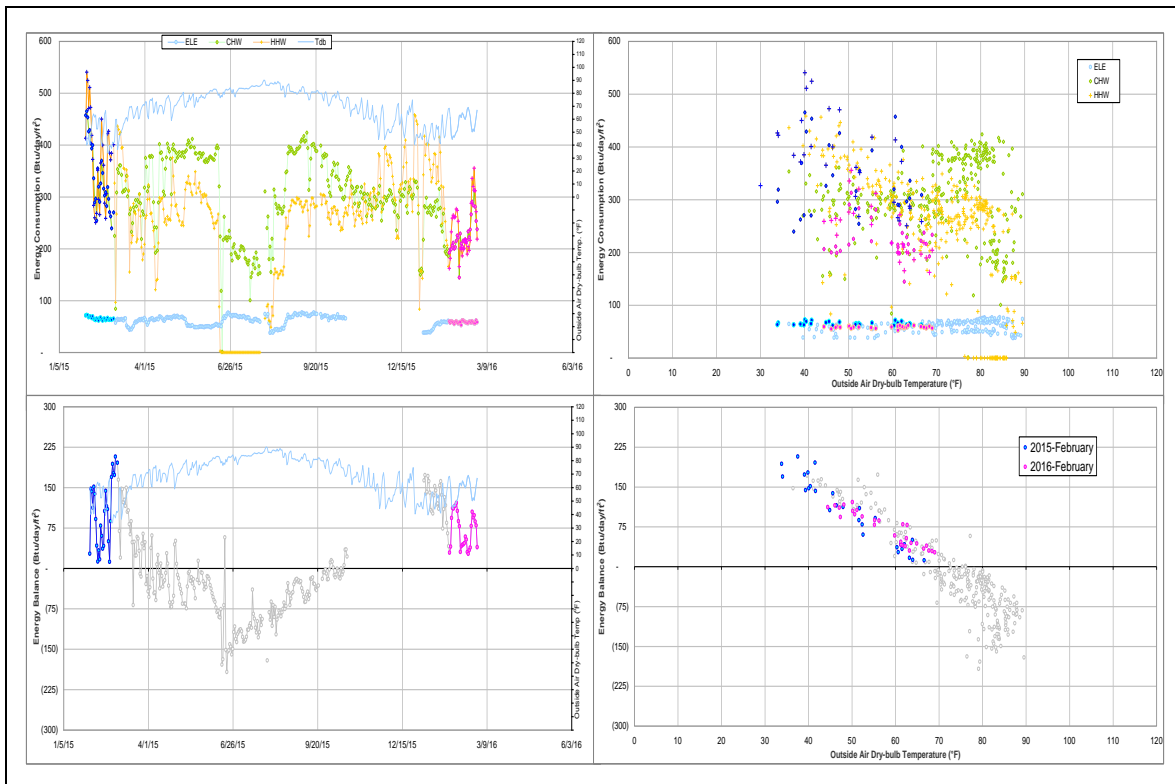
| Data Type | Description of data behaviors | Period |
|-------------|---|-----------------|
| CHW and HHW | The consumption varied frequently. | Since June 2015 |
| CHW | The consumption pattern was very scattering and no clear temperature dependence was observed. | For one year |

Comments

Both CHW and HHW consumption increased or decreased at the same time since June 2015. As we know, VFDs have been installed for HHW and CHW in December 2014 and June 2015, respectively.

The CHW consumption pattern was very scattering and no clear temperature dependence was observed for last year. It is suggested to investigate this meter.

Explanatory Figure: 13 months energy balance plot with original data



Mosher Residence Hall (TAMU BLDG # 433)

Detected issues in the energy balance and/or the consumption data

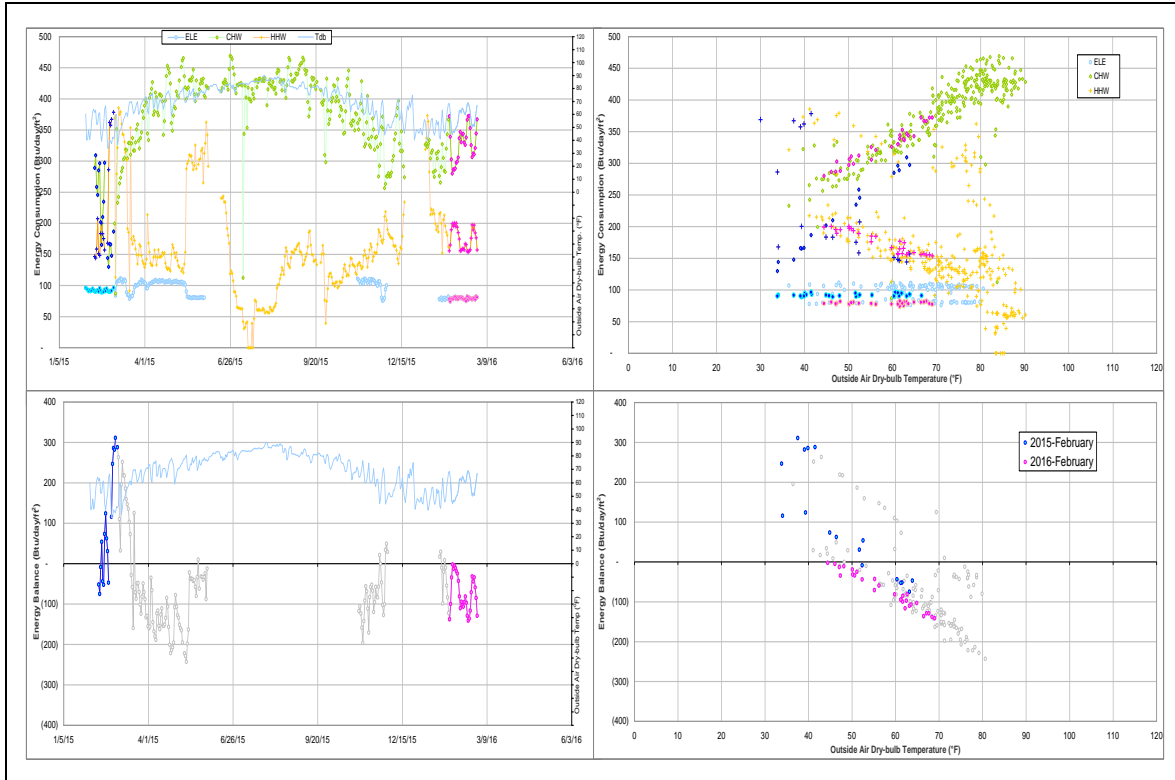
| Data Type | Description of data behaviors | Period |
|------------|---|-----------------|
| ELE 009083 | The consumption level suddenly decreased. | Since 1/23/2016 |

Comments

The cross-point temperature for this building was around 55°F before March 2015. CHW consumption increased 50- 100 Btu/day/ft² due to an increase of flow rate after March 2015 and the pattern was stable over one year. As a result, the cross-point temperature decreased from ~ 55°F to ~50°F.

The ELE meter (MID 009083) replaced old meter (MID 000290) since January 2016. After that, the consumption decreased from ~105 Btu/day/ft² to ~80 Btu/day/ft² (approximately 25%). The CHW and HHW consumption levels didn't changed. The cross-point temperature was further decreased and it lower than 50°F now. It is suggested to investigate this meter.

Explanatory Figure: 13 months energy balance plot with original data



Rudder Theatre Complex (TAMU BLDG # 446)

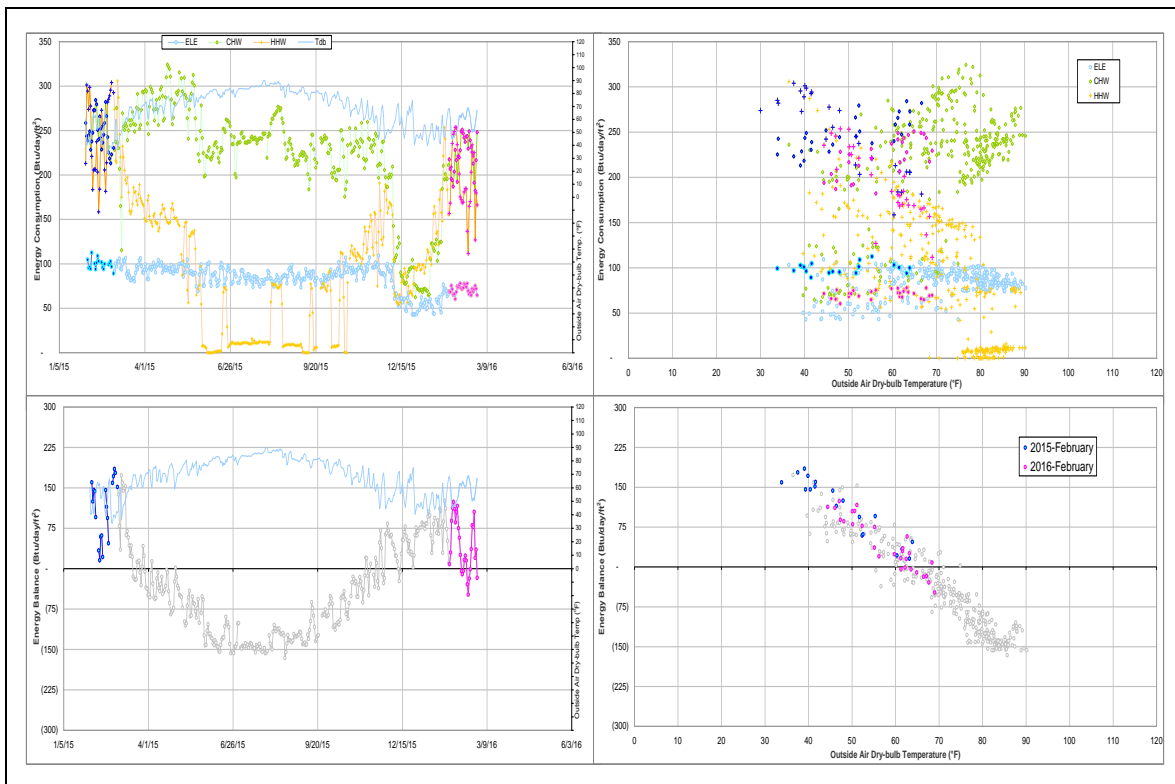
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|------------------|---|-----------------|
| ELE, CHW and HHW | The consumption level suddenly decreased. | Since 12/7/2015 |

Comments

The ELE (Meter ID: 002977), CHW (Meter ID: 004297) and HHW (Meter ID: 004309) consumption suddenly decreased by 50, 150 and 100 Btu/day/ft², respectively, since 12/7/2015. The decrease of the CHW consumption was caused by the decrease of the return temperature, and the drop of the HHW use was led by the smaller delta T. In the middle of January 2016, the CHW and HHW consumption gradually increased. However, the energy balance has no significant change and the cross-point temperature is still in the reasonable range (around 70°F). It is recommended to check the system operation of this building.

Explanatory Figure: 13 months energy balance plot with original data



MSC (TAMU Bldg # 454)

Detected issues in the energy balance and/or the consumption data

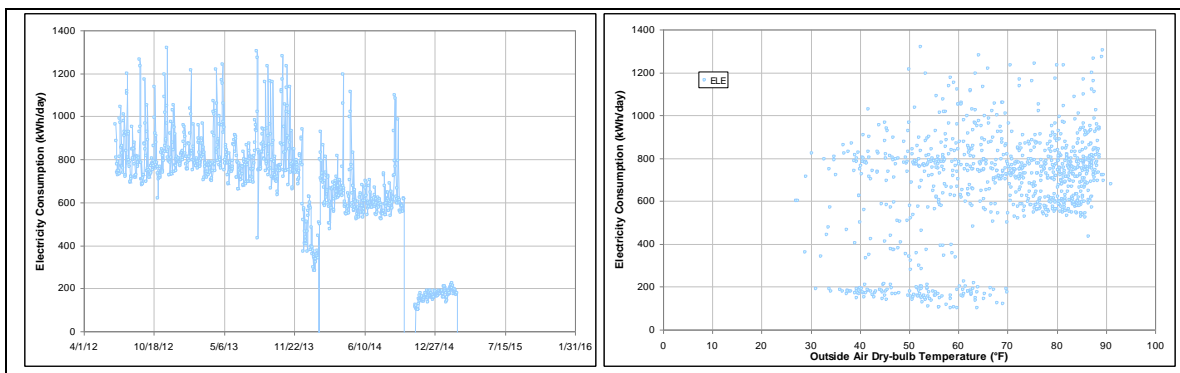
| Data Type | Meter ID | Description of data behaviors | Period |
|-----------|----------|----------------------------------|--------------------|
| ELE | 007420 | The consumption data is missing. | 3/1/2015 – ongoing |

Comments

There are three ELE meters for this building. The ELE consumption for Meter #007420 counts for less than 5% of total ELE use. The ELE (Meter ID: 007420) consumption data is missing since 3/1/2015. The energy pattern for this meter was always scattered for years, and the consumption decreased to around one fourth during 11/1/2014 through 2/28/2015. The missing data was estimated by a temporary model based on the data during 2/1/2014 – 9/30/2014.

For the month of September 2015, a counter reading of this ELE meter was given, but this number was very high (around 10 times of the consumption level before March 2015).

Explanatory Figure: Time series plot and energy pattern with respect to outside temperature for ELE (Meter ID: 007420) from 7/1/2012 to 2/28/2015.



Psychology Building (TAMU Bldg #463)

Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|---|
| Energy Balance | The pattern scatters and the level is low. | For several years after ESCO implementation in 2011 |
| CHW | The consumption pattern versus ambient temperature scatters. | |

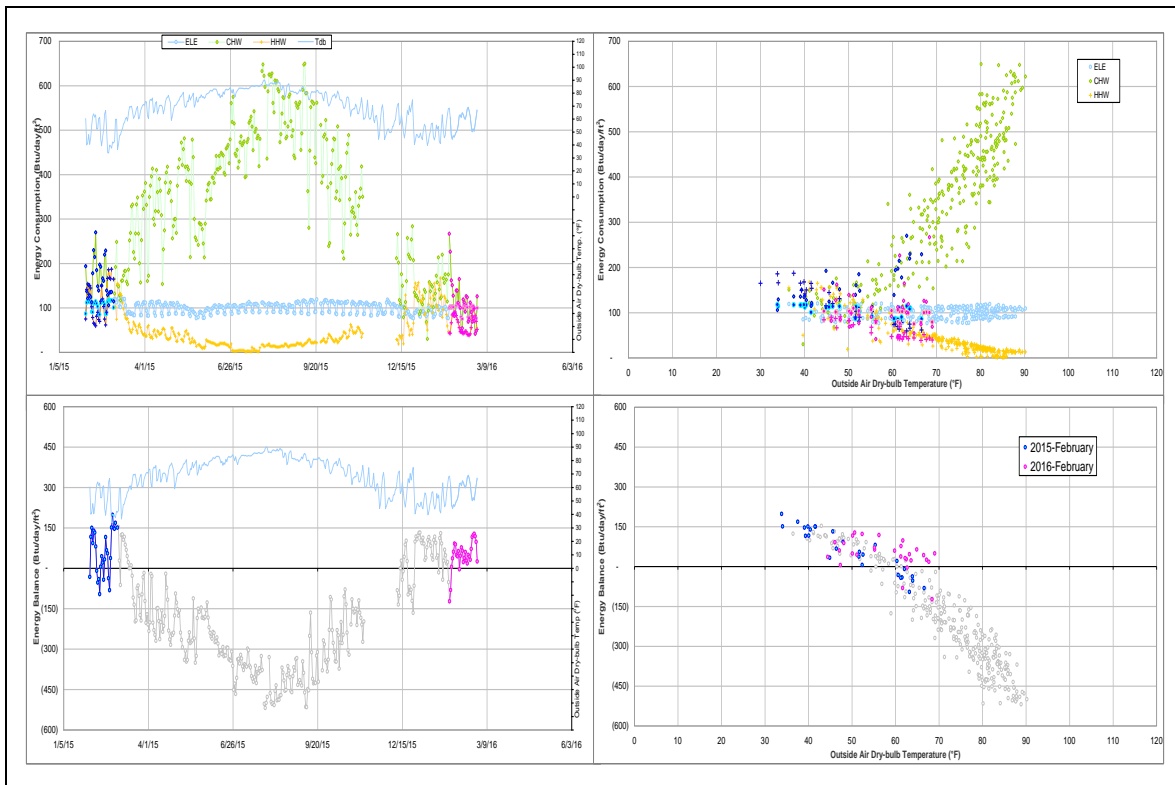
Changes in sensor readings related to the detected issues

| Energy Type | Meter ID | Period | Type | Description |
|-------------|----------|--------------------|---------|---------------------------|
| CHW | 002941 | 11/29/2012–ongoing | Delta T | Large for office building |

Quantitative descriptions and comments

The CHW consumption pattern versus ambient temperature started to scatter after ESCO implementation. The CHW consumption level is high, because the CHW temperature differential is around 20°F that is high for an office building with conventional HVAC systems. The cross-point temperature of the energy balance is 50 - 60°F. The building had energy efficiency improvements by ESCO during the period of 5/9/2011–8/19/2011.

Explanatory Figure: 13 months energy balance plot with original data



Biological Sciences Building – East (TAMU Bldg # 467)

Detected issues in the energy balance and/or the consumption data

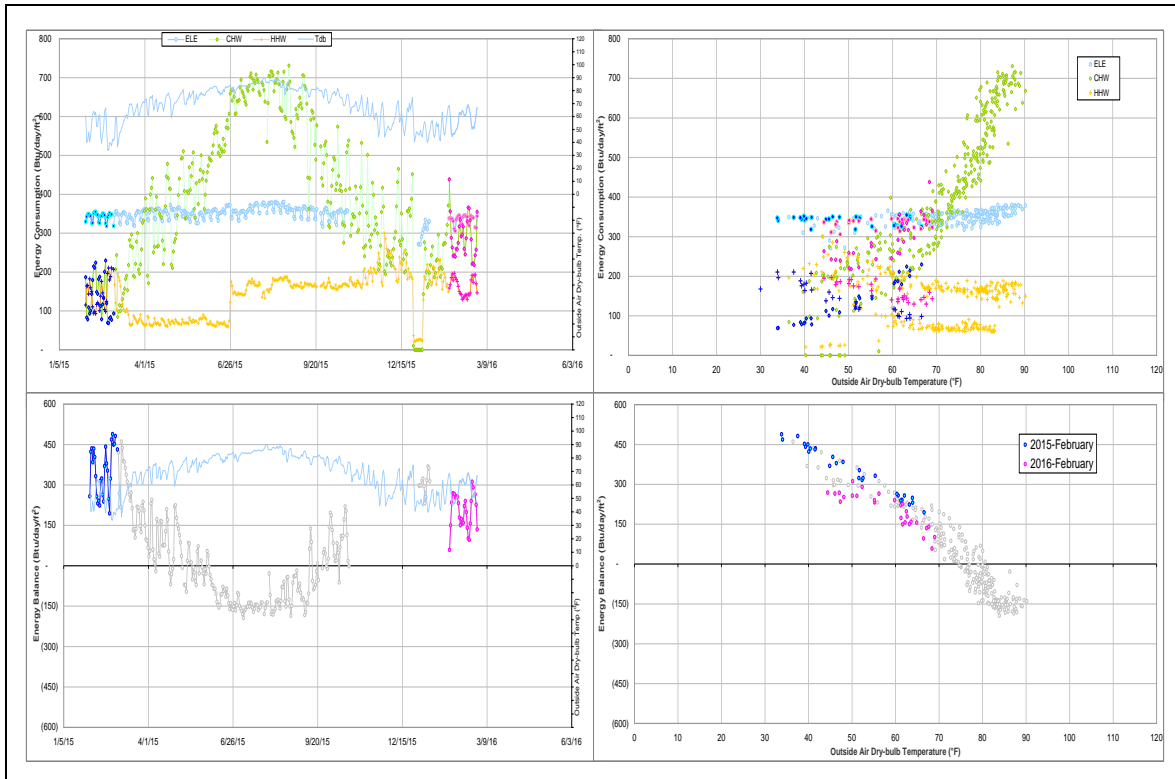
| Data Type | Description of data behaviors | Period |
|-----------|---|---------------------|
| ELE | The consumption level may be high. | 1/2/2013–ongoing |
| HHW | The consumption level suddenly increased. | 6/26/2015–ongoing |
| CHW | The consumption was higher than the same period of last year. | Since November 2015 |

Comments

The ELE consumption suddenly increased after 1/2/2013 by approximately 100 Btu/day/ft². There was a power outage in the building right before this increase. The CHW and HHW consumption levels did not change. The increased ELE usage level was in the range 290 - 390 Btu/day/ft² for the last year, which was higher than those for other buildings with similar functionality. For example, the ELE use range in the adjacent Biological Sciences Building – West (Bldg 449) was 190 –250 Btu/day/ft² during the same time period. These buildings have similar CHW and HHW consumption levels. The energy balance load after the ELE increase was higher than expected range by approximately 120 Btu/day/ft². The increase of the ELE use in Biological Sciences Building – East after 1/2/2013 was questionable and this meter needs attention.

The HHW consumption suddenly increased about 100 Btu/day/ft² since 6/26/2015 due to an increase in the delta-T. The CHW consumption since the month of November 2015 was about 100 Btu/day/ft² higher than the same period of last year.

Explanatory Figure: 13 months energy balance plot with original data



Civil Engineering Building (TAMU Bldg # 492)

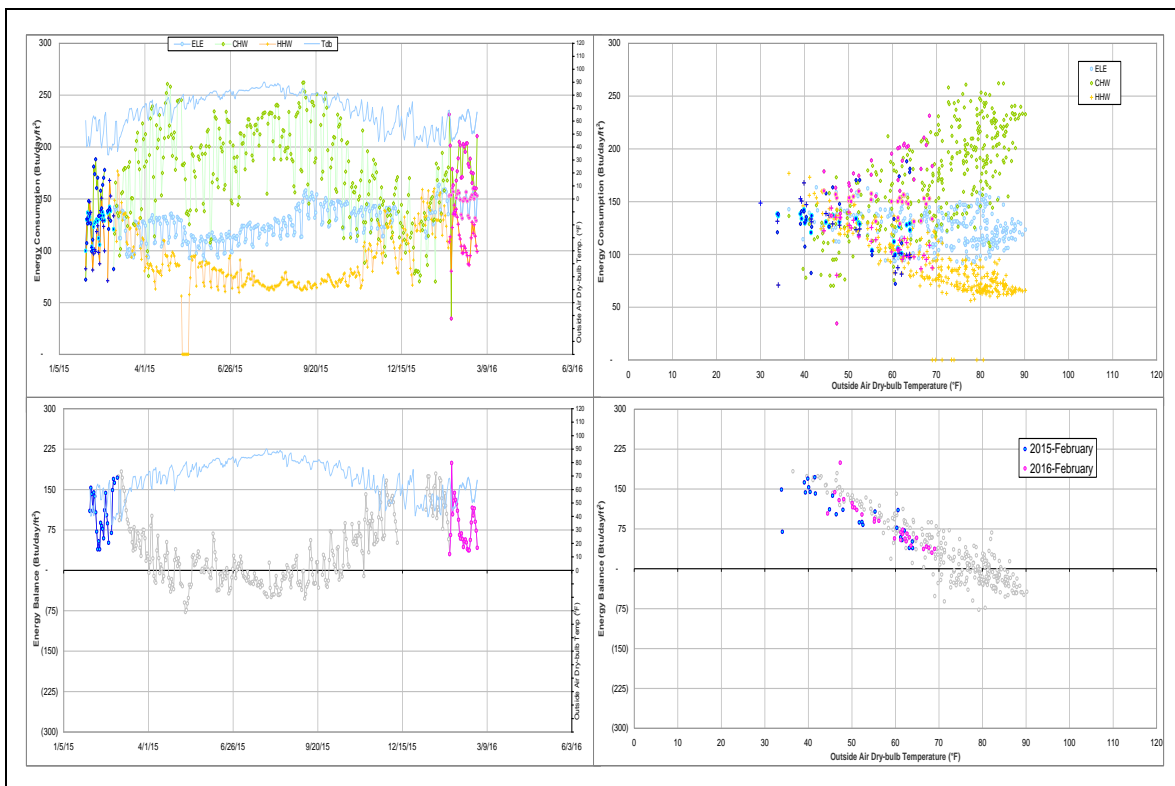
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--------------------------------------|-------------------------|
| Energy Balance | The cross-point temperature is high. | May 2015 – January 2016 |
| CHW | The consumption level decreased. | May 2015 – January 2016 |

Comments

May 2015 through January 2016, the CHW consumption decreased and the energy balance tended to be high with a cross-point temperature around 80°F. February 2016 is starting to show an increase in CHW consumption and a drop in the cross-point temperature. This change will continue to be monitored.

Explanatory Figure: 13 months energy balance plot with original data



Utilities & Energy Services Central Office (TAMU Bldg #496)

Detected issues in the energy balance and/or the consumption data

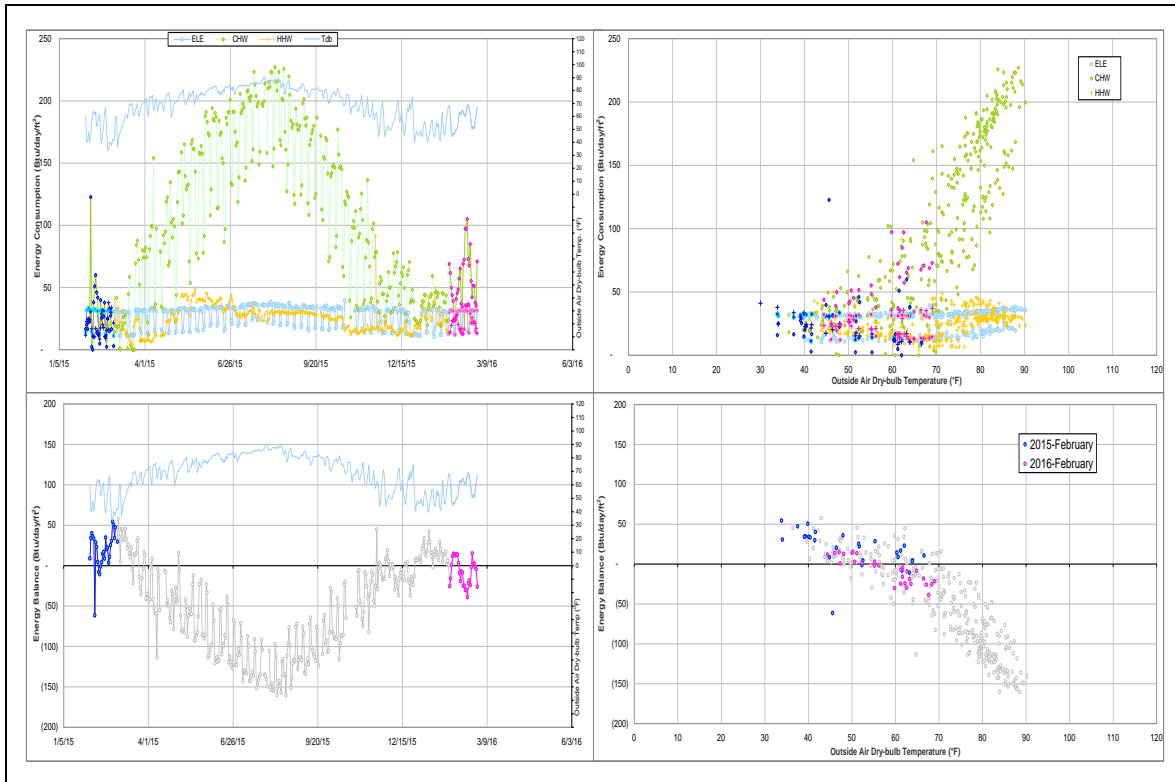
| Data Type | Description of data behaviors | Period |
|-------------------|---|---|
| ELE, CHW, and HHW | The energy use per unit floor area was low compared to other buildings. | Since the data became available on 7/1/2012 |

Quantitative descriptions and comments

The peak electricity use density was around 0.65 W/ft² which is small compared to that of other office buildings on campus. The delta T for HHW seemed to be small for years. The CHW and HHW consumption per the unit floor area also seemed to be low. It is possible that the GSF we have (46,110 ft²) includes substantial unoccupied space.

The energy balance was scattered due to the consumption level changes for CHW and HHW, the cross-point temperature of the energy balance was ranged around 50 to 70°F.

Explanatory Figure: 13 months energy balance plot with original data.



Engineering Innovation Center (TAMU Bldg # 499)

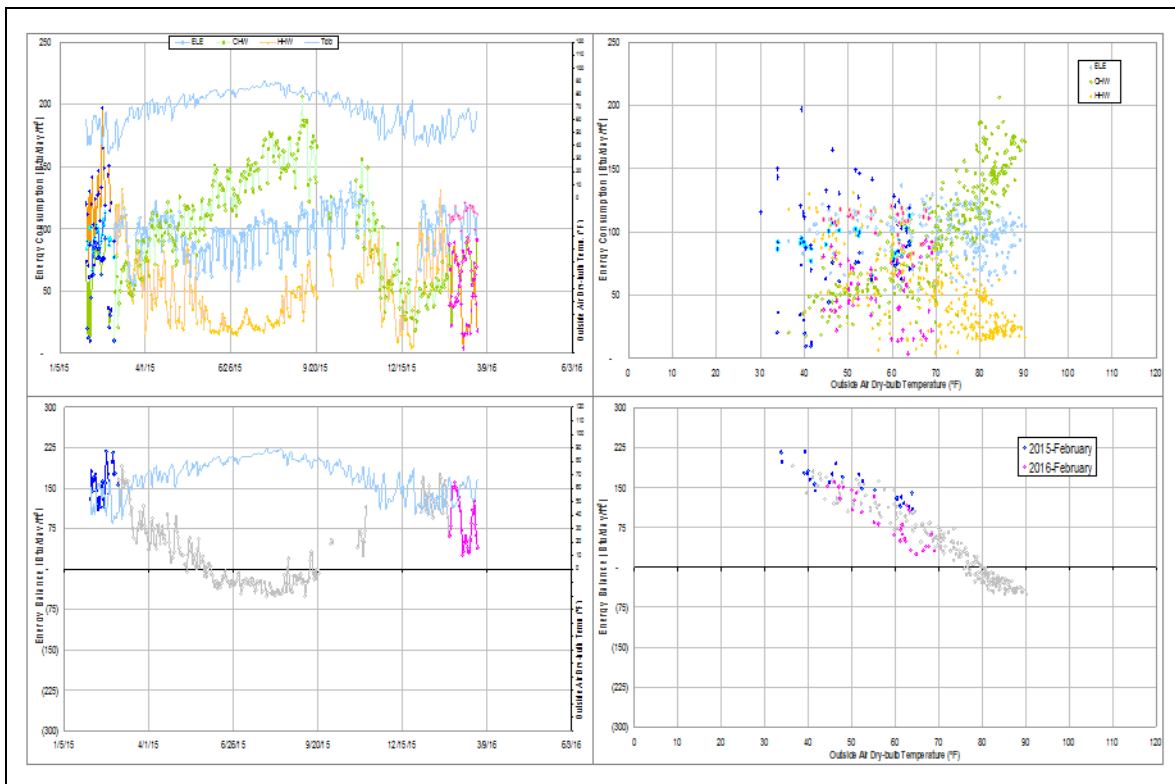
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|---|---------------------|
| Energy Balance | The cross-point temperature is high. | For years |
| CHW | The consumption level is low compared to the ELE and HHW consumption. | For years |
| HHW | The consumption was lower than the same period of last year. | Since December 2015 |

Comments

The cross-point temperature of the energy balance is around 80°F. The CHW consumption is relatively low and its delta T is always small. The HHW consumption since December 2015 is much lower than the same month of last year (about 100 Btu/day/ft² lower).

Explanatory Figure: 13 months energy balance plot with original data



Nagle Hall (TAMU Bldg #506)

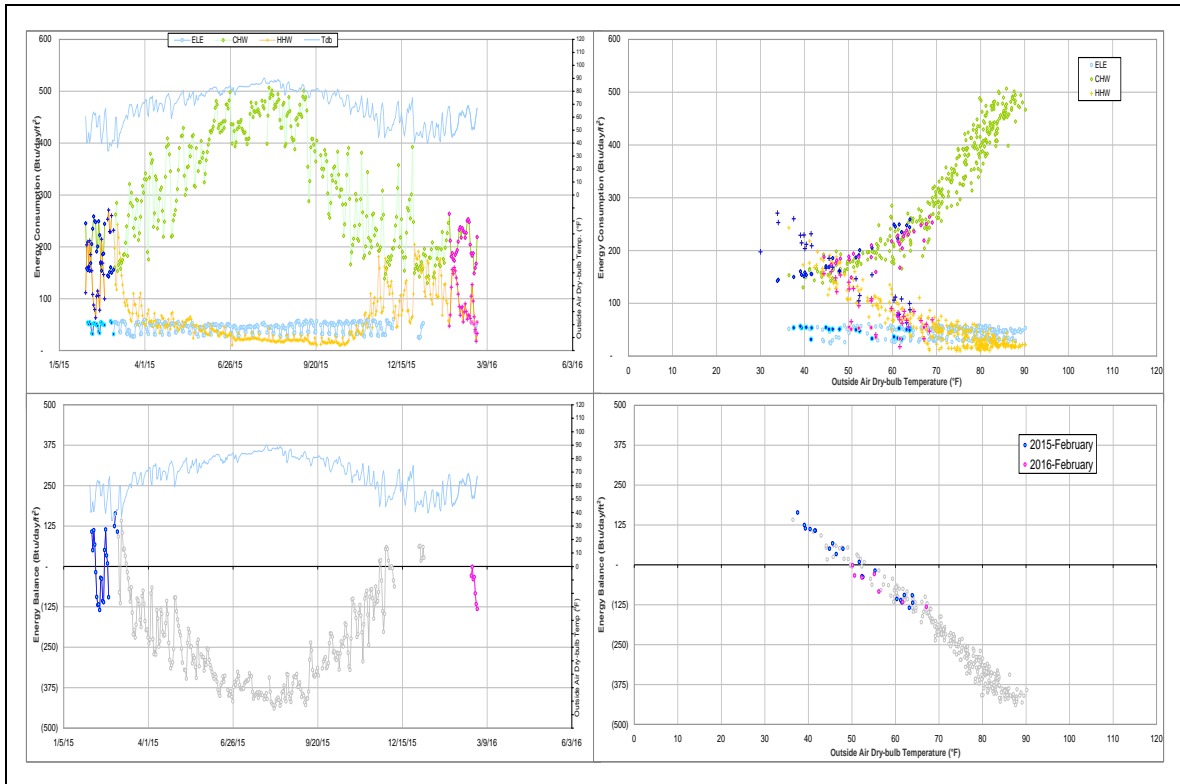
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|---|
| Energy Balance | The level was low and the cross-point temperature was around 50°F. | The cross-point temperature has always been low. |
| ELE | The consumption per unit floor area was smaller than those for other office buildings. | The level was always low and gradually decreased over the past 4 years. |

Comments

The ELE consumption was about 100 Btu/day/ft² lower than the levels in typical office buildings on campus, and this might be a metering error or this meter might not cover the whole building.

Explanatory Figure: 13 months energy balance plot with original data



Heep Laboratory Building (TAMU Bldg #511)

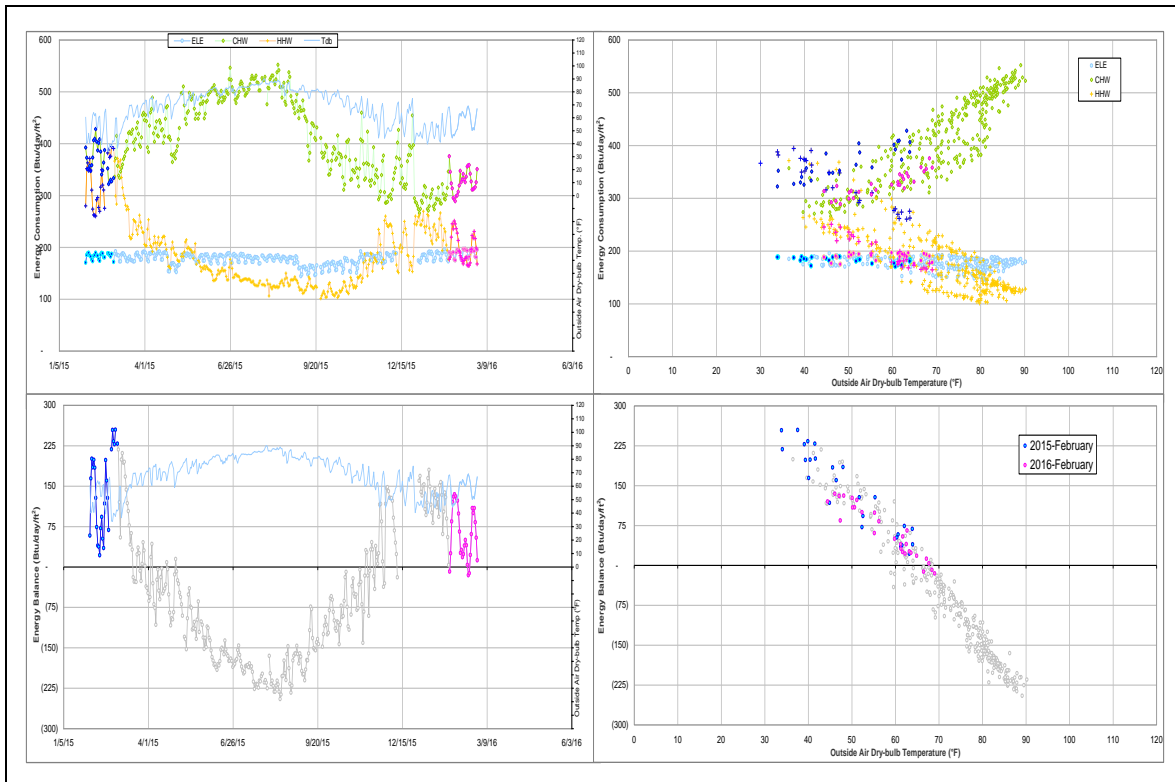
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-------------|--------------------------------------|----------------------|
| CHW and HHW | Energy consumption levels decreased. | Since September 2015 |

Comments

All energy consumption levels decreased around 20 - 80 Btu/day/ft² since September 2015. The ELE consumption increased gradually and reached previous level in November 2015. There is no conclusive metering issue and energy balance maintained same pattern. This building had energy efficiency improvements by ESCO this year. It could be the reason to cause these changes.

Explanatory Figure: 13 months energy balance plot with original data



Blocker Building (TAMU Bldg #524)

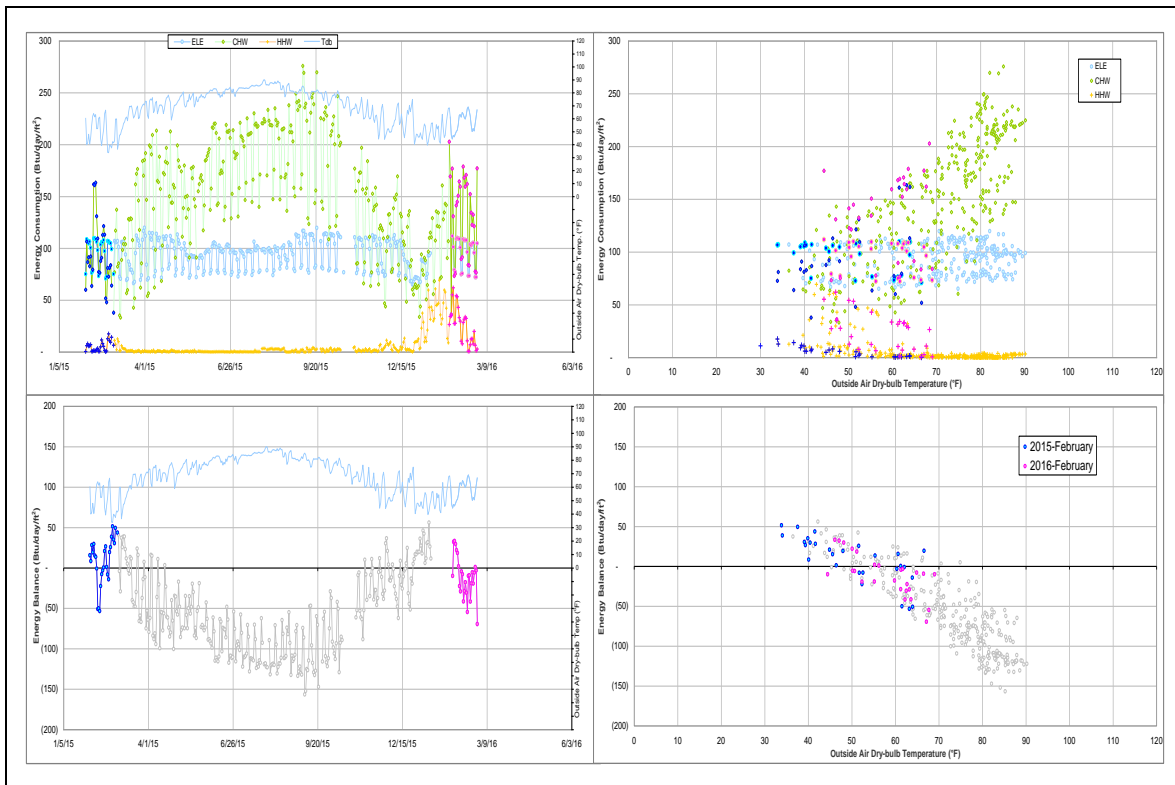
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|-------------------------------------|--------------------|
| HHW | The consumption level might be low. | Past several years |

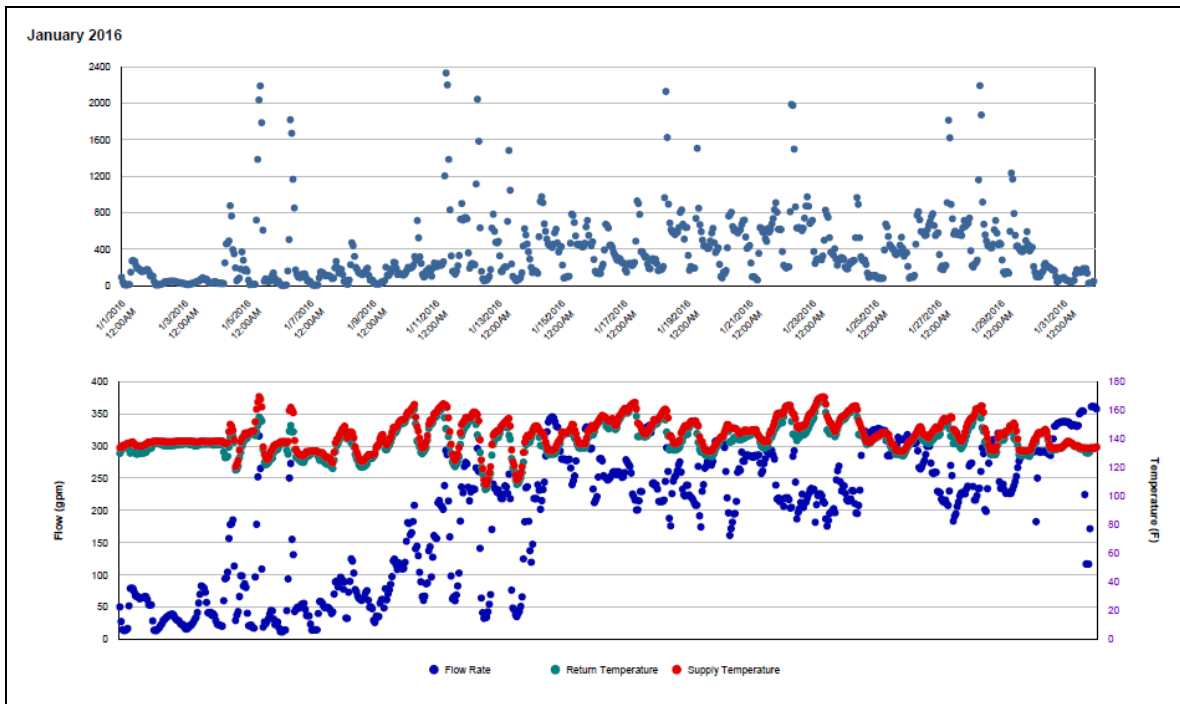
Quantitative descriptions and comments

The delta T for HHW seemed to be small and the consumption level might be low for years. It is suggested to investigate this meter.

Explanatory Figure: 13 months energy balance plot with original data



Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office. (HHW meter during January 2016)



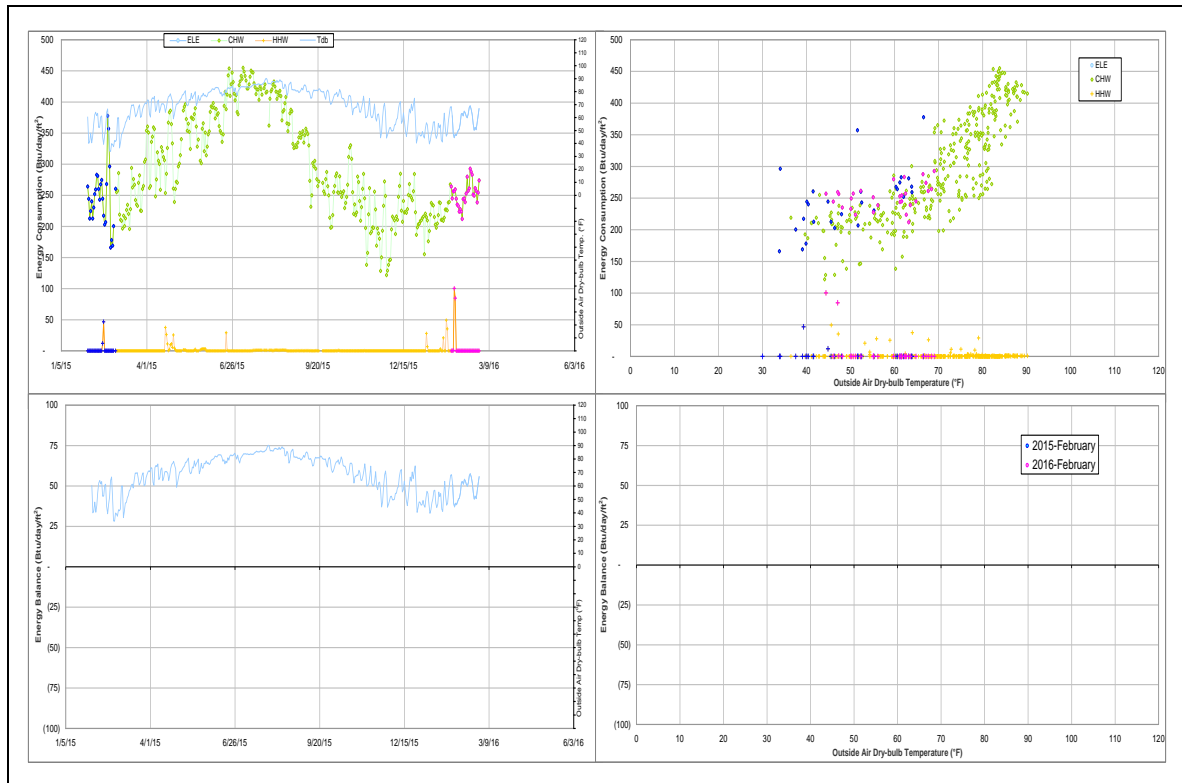
TVMC-Small Animal Building (TAMU Bldg# 880)

| Data Type | Description of data behaviors | Period |
|-----------|--|---|
| HHW | The daily consumption is zero or nearly zero for the majority of the days during the year. | Since the data became available in October 2008 |

Comments

The daily HHW consumption pattern is zero or nearly zero for the majority of the days for years. The HHW consumption level are unstable since the data became available, and we do not have valid consumption model for this meter.

Explanatory Figure: 13 months energy balance plot with original data



Veterinary Medicine Administration (TAMU Bldg# 1026)

Detected issues in the energy balance and/or the consumption data

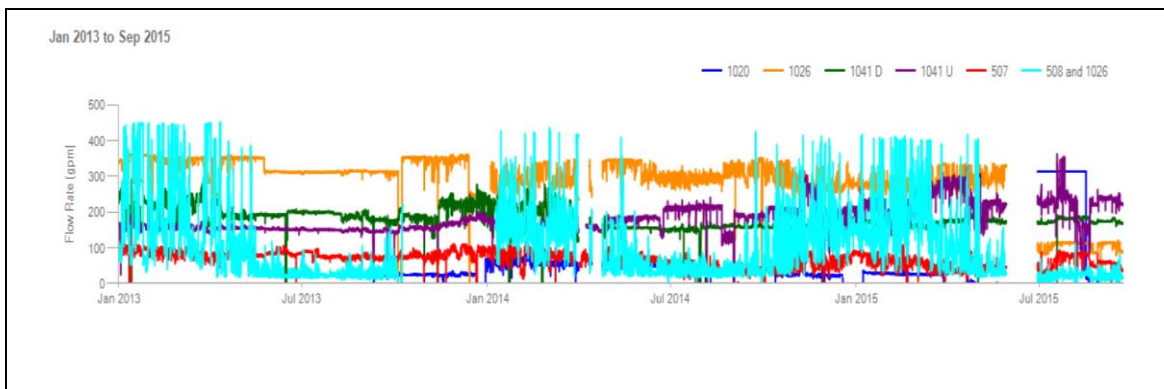
| Data Type | Description of data behaviors | Period |
|---------------|--|-------------------|
| HHW 006053 | The sub-meter's (006053) flow rate for one building sometimes is higher than the total meter (004170) for two buildings. | For several years |

Comments

The HHW meter ID 006053 is a sub-meter of the meter ID 004170 which meters the total energy use in the buildings #508 and 1026. It is questionable that the flow rate of the sub-meter exceeds the flow rate of the main meter. We would like to know the HHW distribution route for the two buildings and the locations of the sensors.

ESL has not received the consumption data for the HHW meter since 10/21/2012.

Explanatory Figure: Time series of hourly HHW supply temperatures (top) and flow rates (bottom) for Veterinary Medicine Administration (Bldg #1026) and neighboring buildings during 1/1/2013–9/30/2015



Biological Control Facility (TAMU Bldg# 1146)

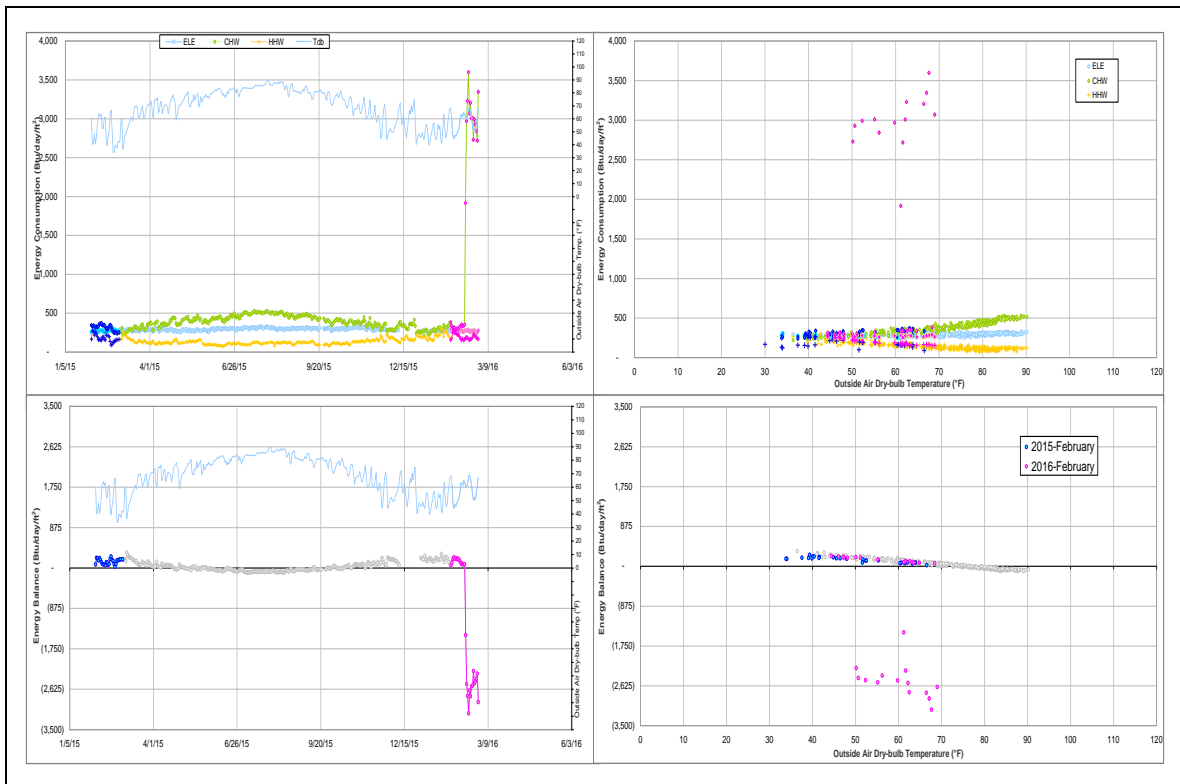
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|--------------------|
| Energy Balance | The cross-point temperature is slightly high, ~75°F. | 12/28/2014-ongoing |
| ELE | The consumption increased gradually. | For last year |

Comments

The electricity consumption increased gradually. The consumption level in current month is 20% higher than same month of last year. As a result, the energy balance pattern changed and the cross-point temperature became slightly high, approximately 75°F.

Explanatory Figure: 13 months energy balance plot with original data



Physical Plant Administration & Shops (TAMU Bldg# 1156)

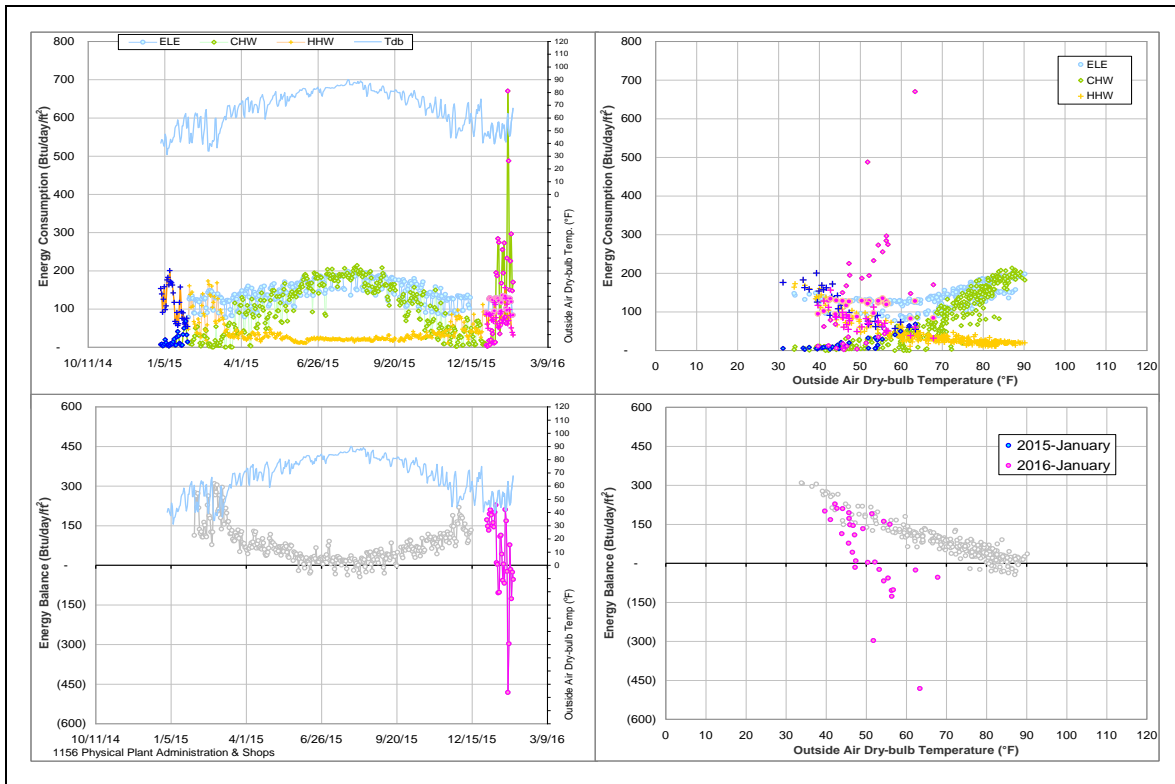
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|---|--|
| Energy Balance | The cross-point temperature is high, ~85°F. | 7/1/2014-ongoing |
| CHW | The consumption level might be low compared to the ELE and HHW use level. | Since the data became available on 7/1/2012. |

Comments

The electricity is not available till 7/1/2014. CHW consumption level might be low compared to the ELE and HHW use level. But the CHW consumption level has been stable since the data became available on 7/1/2012. More information might be needed to help identify which type energy causes the high cross-point temperature.

Explanatory Figure: 13 months energy balance plot with original data



Veterinary Research Building (TAMU Bldg# 1197)

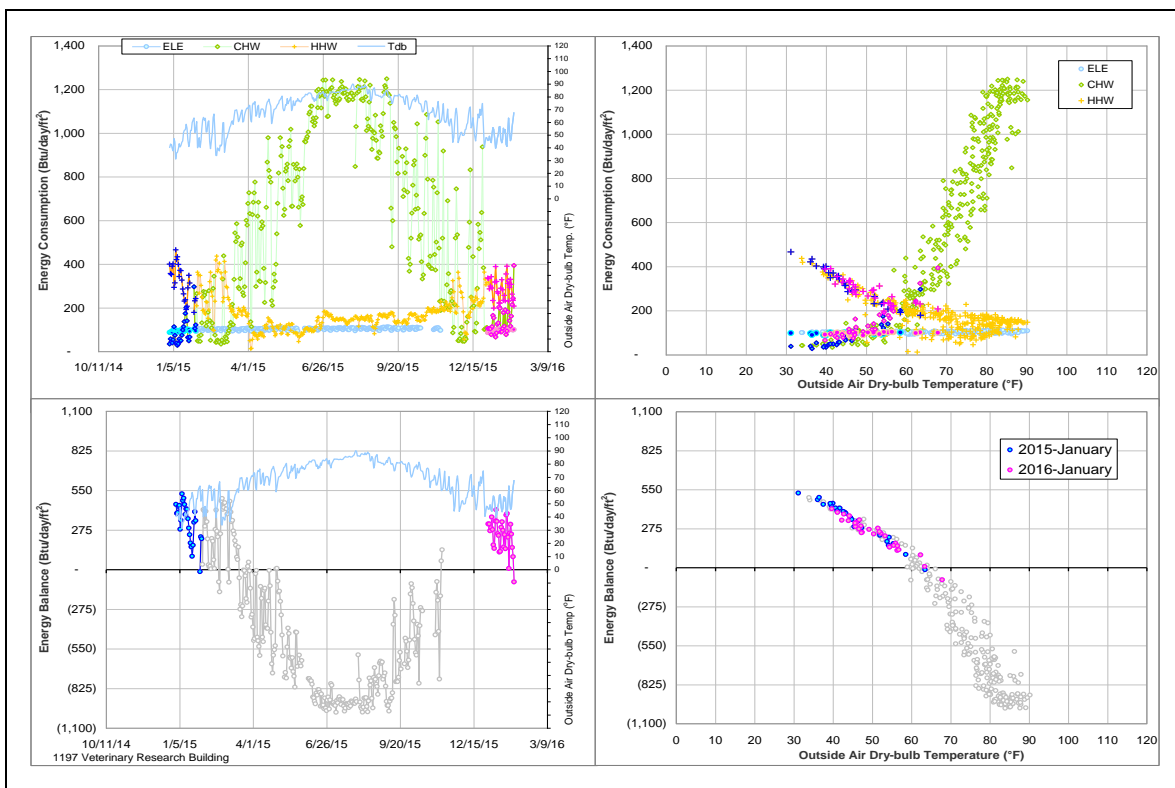
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|--|
| ELE | The consumption is low for a laboratory building. | Since January 2010 when the meter was added to this report |

Comments

The whole building hourly electricity use is in the range 130 kWh to 180 kWh (1.13 W/ft^2 to 1.57 W/ft^2), which is low for a veterinary laboratory building on the campus. This seems to be the reason for the low level of the energy balance load. The temperature-axis intercept of the energy balance is around 62°F .

Explanatory Figure: 13 months energy balance plot with original data



Kleberg Center (TAMU Bldg #1501)

Detected issues in the energy balance and/or the consumption data

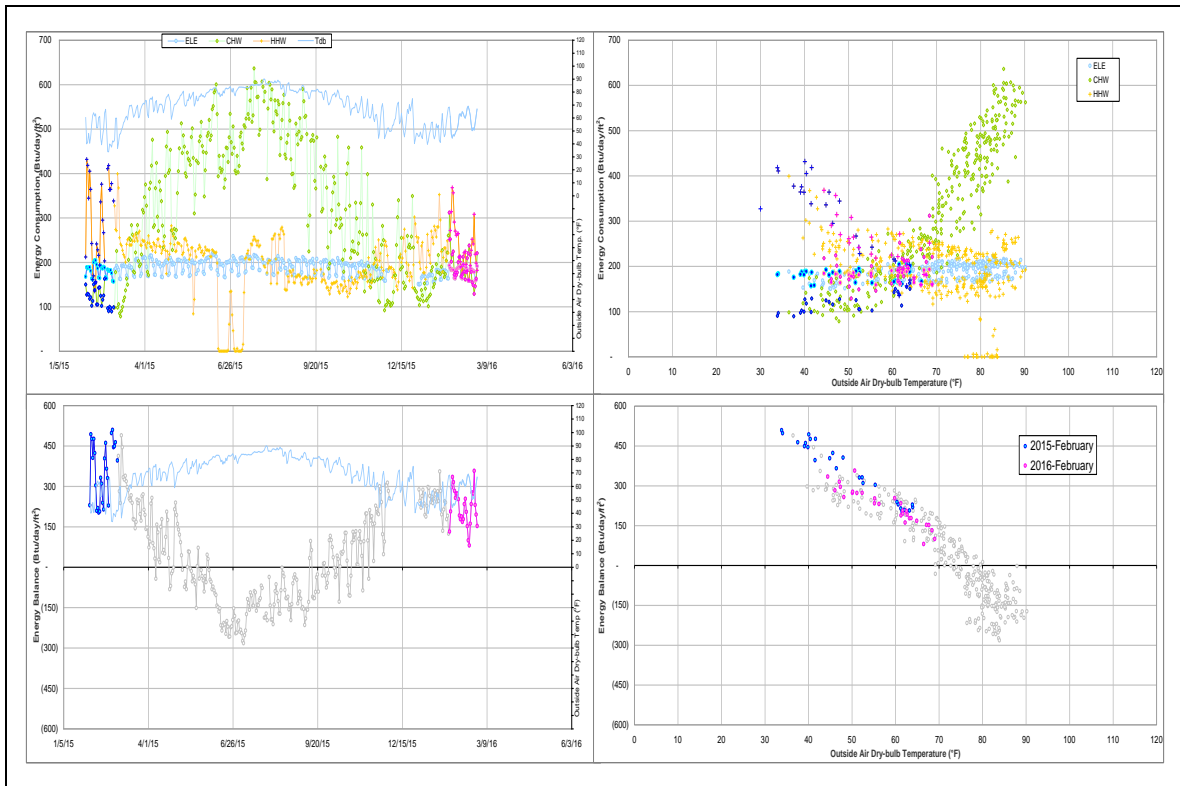
| Data Type | Description of data behaviors | Period |
|-----------|---|---|
| CHW | The return temperatures is high. Delta-T is bigger than that for similar buildings in campus. | Since we started to analysis this building in 2006. |

Comments

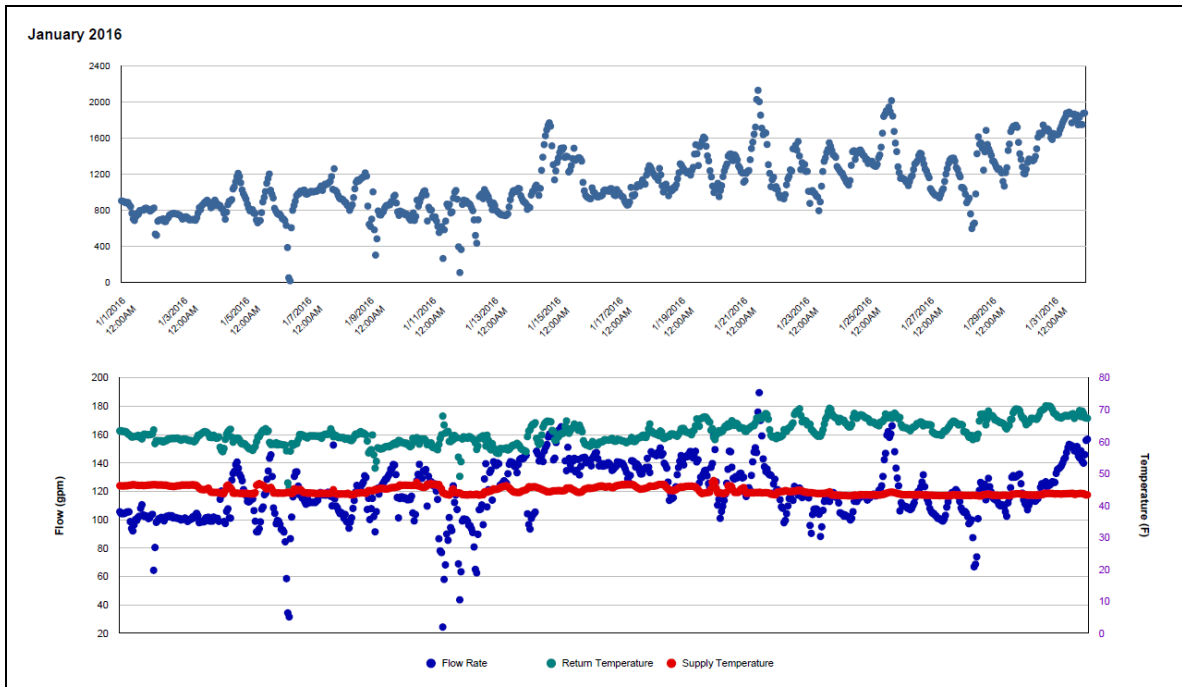
The return temperature for CHW meter was high, about 60 - 70°F for years. The return temperature increased further on 11/13/2014 and it reached 80°F sometimes. Delta-T for this building (25 - 35°F) is much bigger than that for similar buildings in campus. It is suggested to investigate the temperature sensor for CHW meter.

The ESCO period for this building is 5/1/2011-1/1/2012. The CHW consumption level has been stable for over three years after ESCO period.

Explanatory Figure: 13 months energy balance plot with original data



Explanatory Figure: Time series plots of hourly energy consumption, flow rate, and supply and return temperatures from the utilities office (CHW during January 2016)



West Campus Parking Garage (TAMU Bldg #1559)

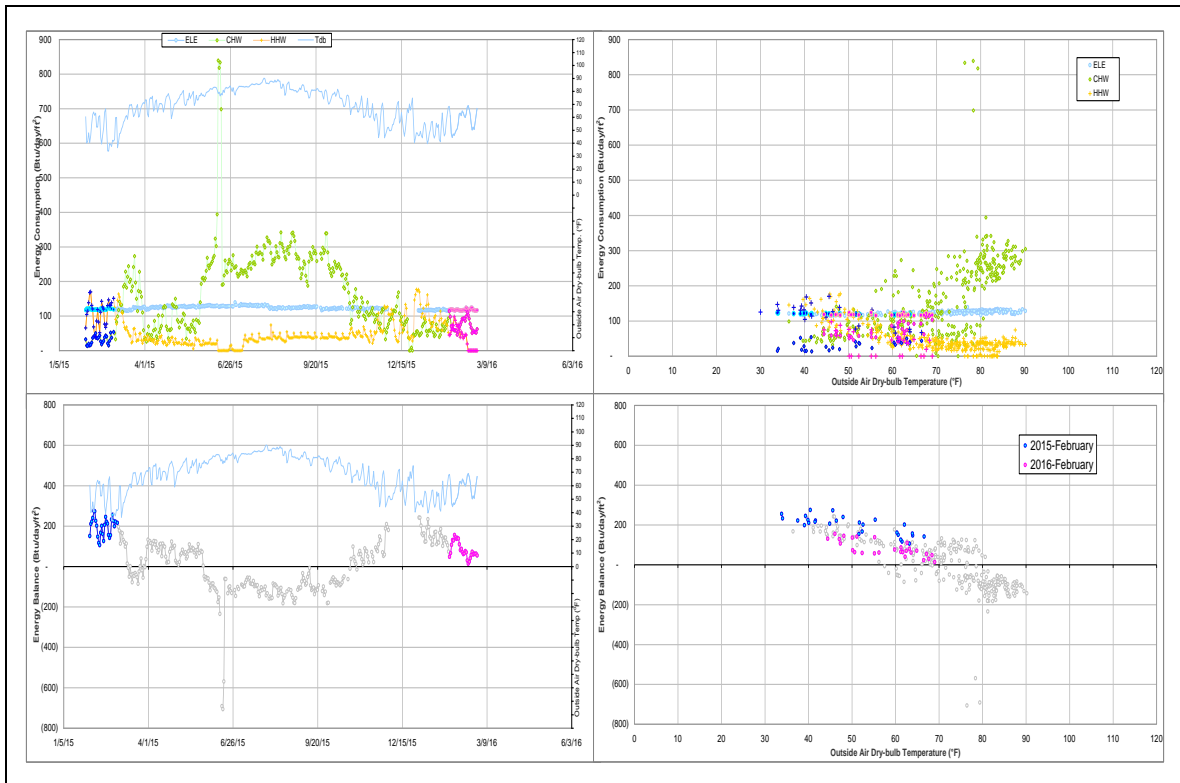
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|---|------------------------|
| CHW | The consumption level decreased largely. The scattering data was observed. | October 2013 - ongoing |
| | The consumption level increased. The scattering data was observed. | 5/28/2015 - ongoing |

Comments

The CHW consumption level decreased from 800 Btu/day/ft² to 100 Btu/day/ft² since October 2013 mainly caused by a decrease in the flow rate. The consumption pattern was very scattering and the cross-point temperature is high, 75-85°F, after this decrease. The CHW consumption increased at the end of May 2015 which causing the cross-point shift to more reasonable range. We need more data to verify this trend. But the consumption pattern is still very scattering.

Explanatory Figure: 13 months energy balance plot with original data



International Ocean Discovery Building (TAMU Bldg #1601)

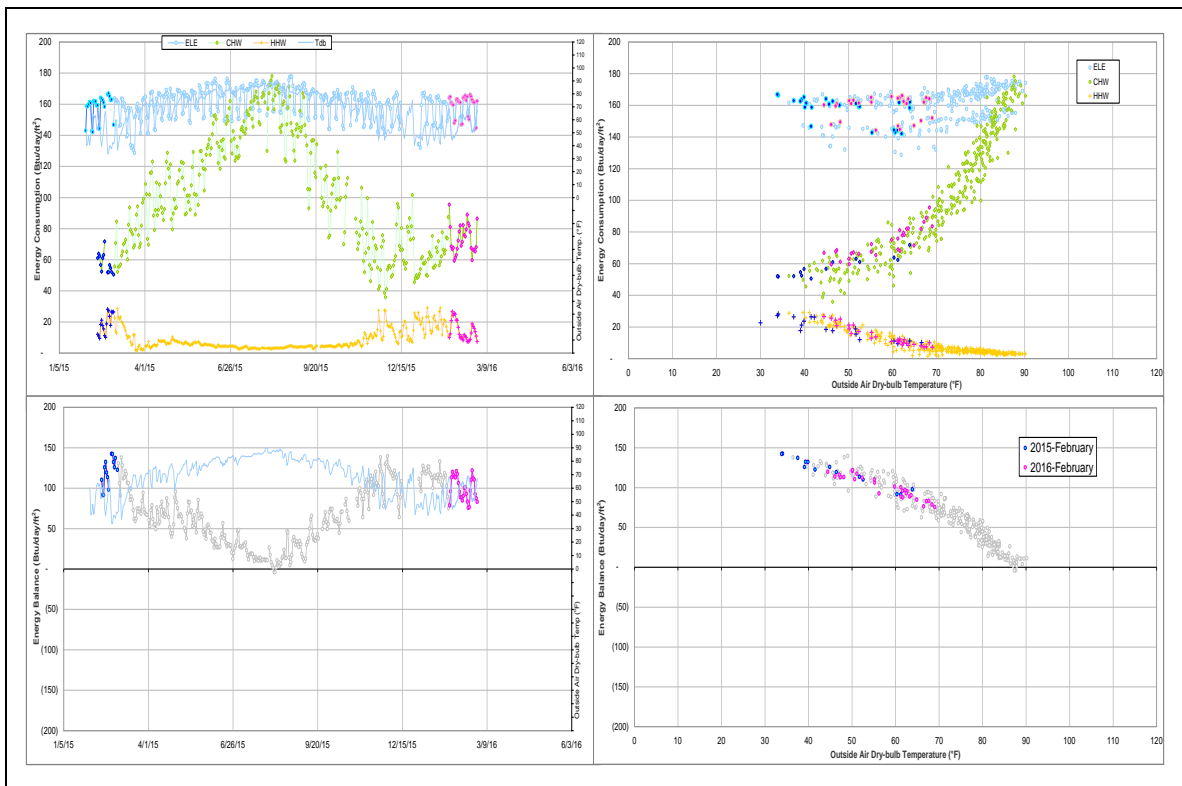
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|----------------|--|---|
| Energy Balance | The cross-point is high, around 88 °F. | Since data became available in Feb 2015 |

Comments

The cross-point temperature is high for this building, around 88°F. The daily CHW consumption for last year is 40 – 180 Btu/day/ft². The CHW consumption level is low compared to ELE and HHW levels. This building might have its chillers.

Explanatory Figure: 13 months energy balance plot with original data



Offshore Technology Research Center (TAMU Bldg #1604)

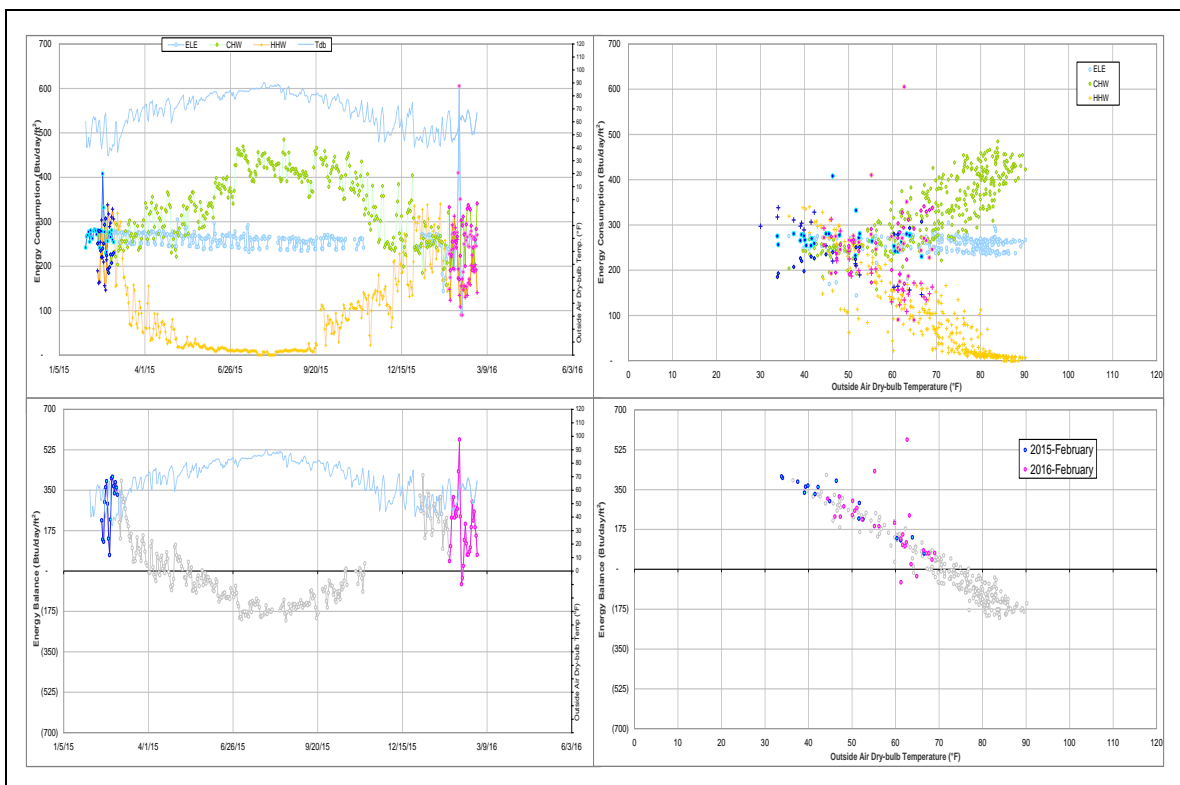
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|--------------|--|---|
| ELE (006660) | The daily consumption was recorded as zero for the majority of the days. | Since data became available in Feb 2015 |

Comments

There are two ELE meters (006659 and 006660). The daily consumption for MeterID 006660 was recorded as zero for the majority of the days since data became available in February 2015. The daily consumption for several days in current month increased largely and caused scattering energy balance.

Explanatory Figure: 13 months energy balance plot with original data



Engineering Research Building (TAMU Bldg #1611)

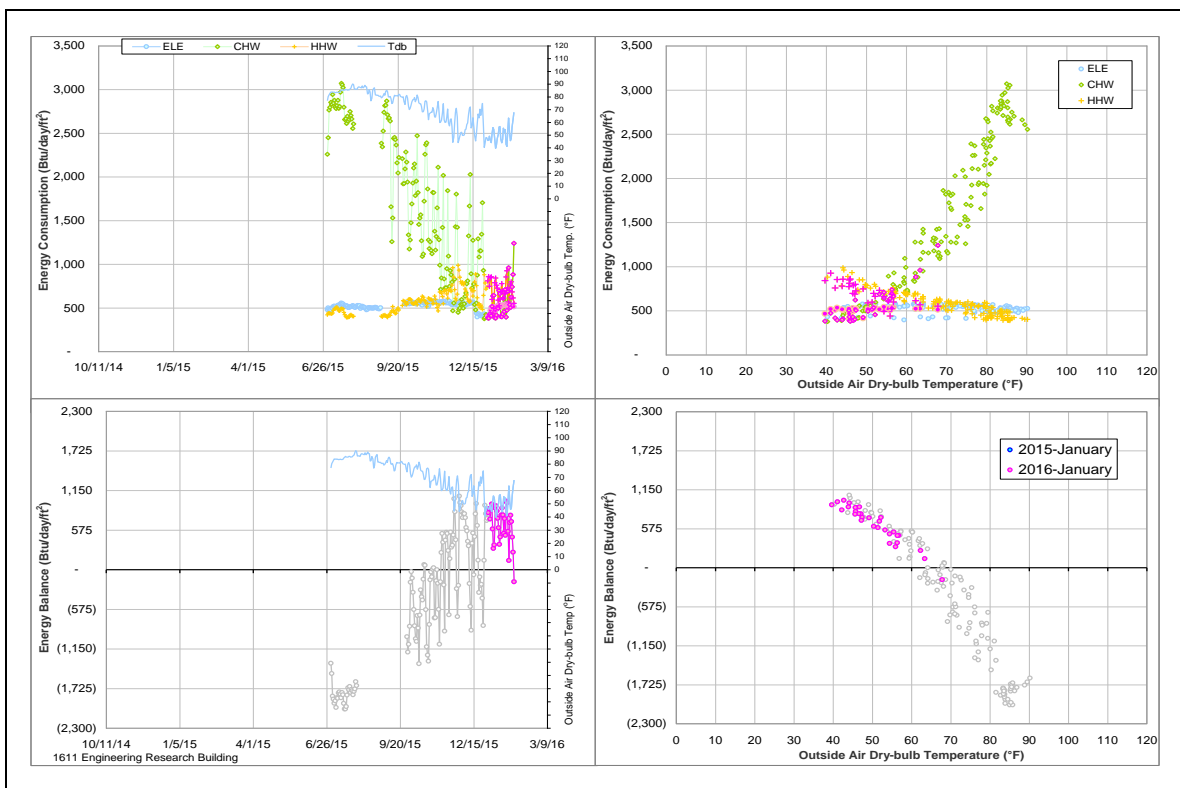
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|------------------|--------------------------------------|--|
| ELE, CHW and HHW | The consumption levels are too high. | Since the data became available in July 2015 |

Comments

The energy data for this building just becomes available since July 2015. All consumption levels seem to be high. ELE: ~500 Btu/day/ft²; CHW: 500 – 3100 Btu/day/ft²; HHW: 400 - 1000 Btu/day/ft². However, the cross-point of temperature for energy balance load is in the reasonable range.

Explanatory Figure: 13 months energy balance plot with original data



NCTM Manufacturing Building (TAMU Bldg #10226)

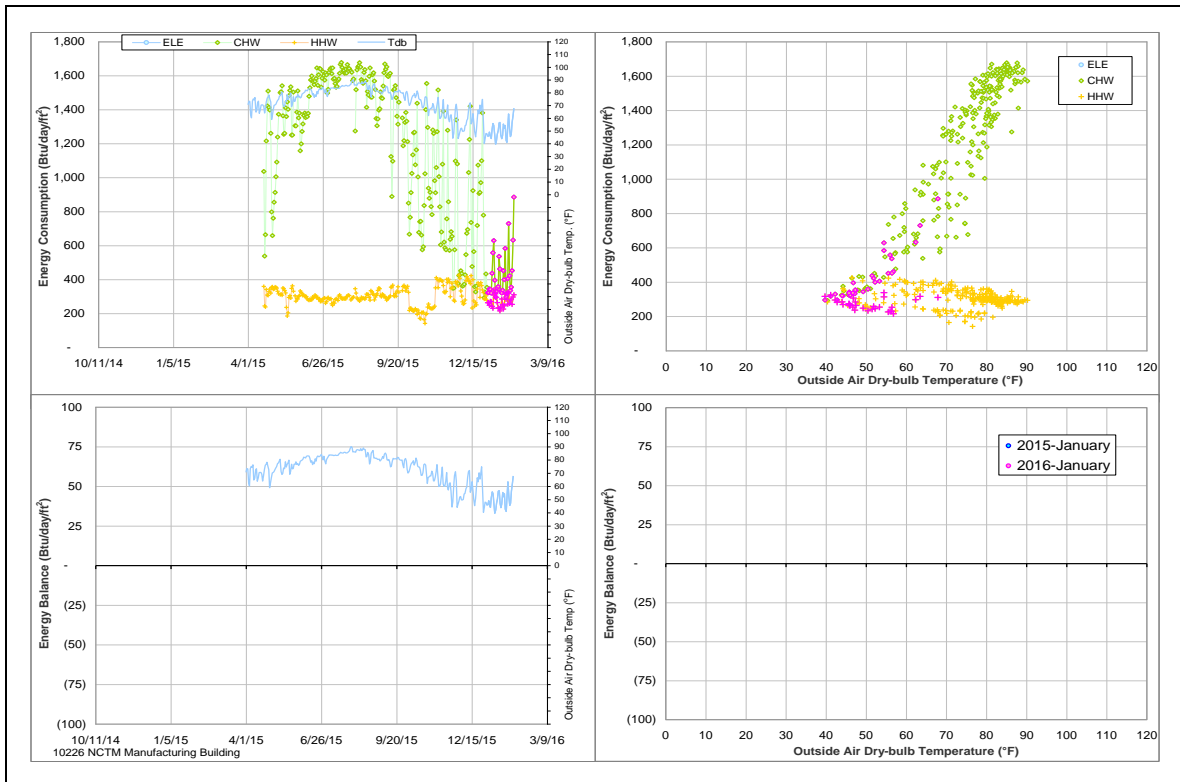
Detected issues in the energy balance and/or the consumption data

| Data Type | Description of data behaviors | Period |
|-----------|-------------------------------|--|
| ELE | The data was unavailable | Since we started to analysis this building in April 2015 |

Comments

We started to analysis this building since April 2015 and the electricity data was unavailable.

Explanatory Figure: 13 months energy balance plot with original data



III. Time Series Plots for February 2016 Consumption

Emerging Technologies Building

TAMU / BLDG #: 0270

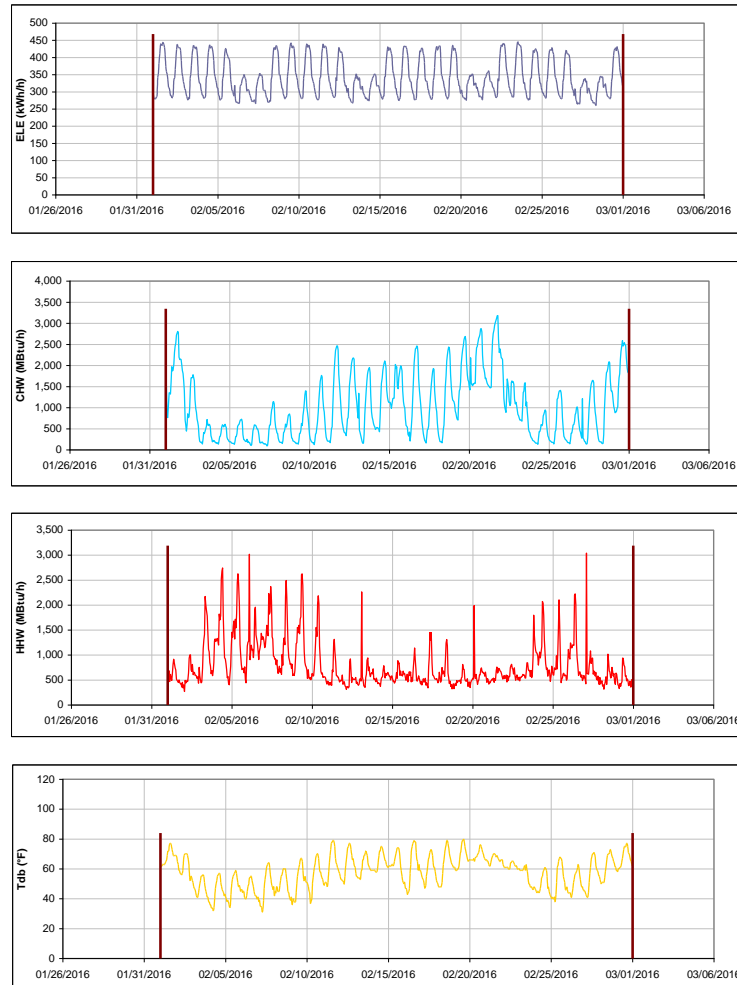


Figure III-1 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Emerging Technologies Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Liberal Arts and Arts & Humanities Building

TAMU / BLDG #: 0275

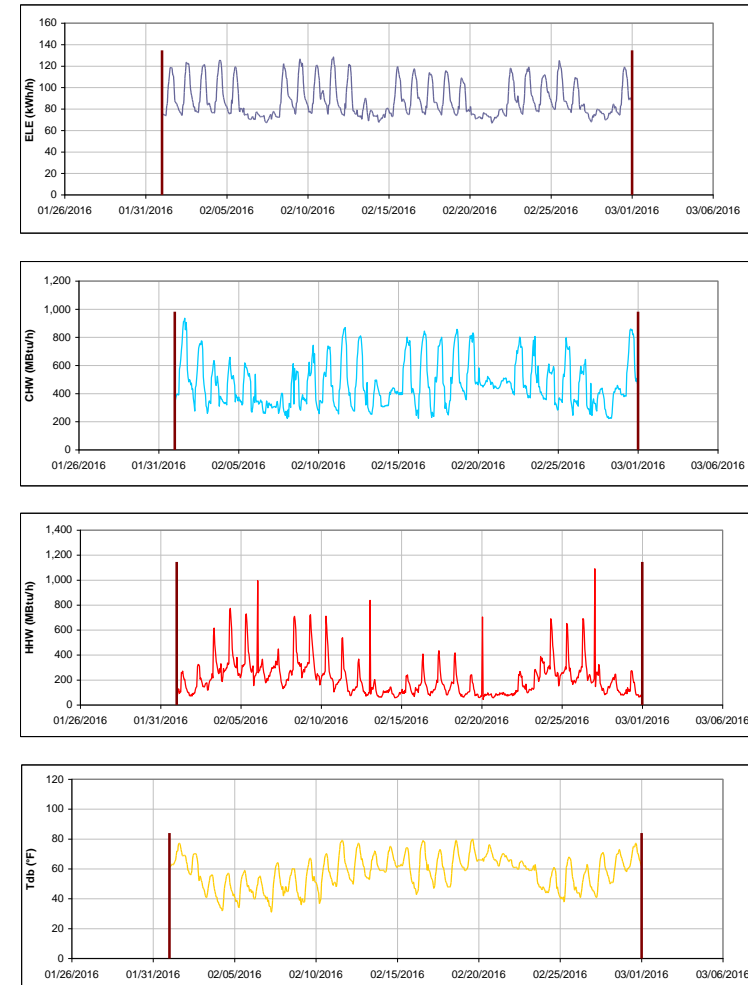


Figure III-2 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Liberal Arts and Arts & Humanities Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Wells Residence Hall

TAMU / BLDG #: 0290

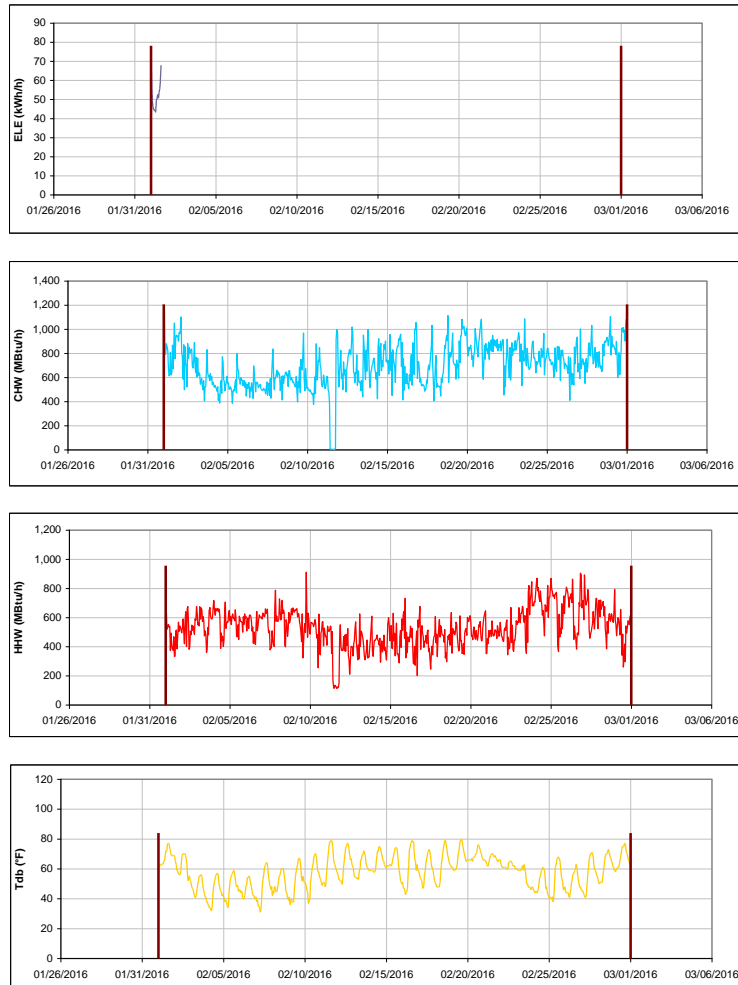


Figure III-3 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wells Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rudder Residence Hall

TAMU / BLDG #: 0291

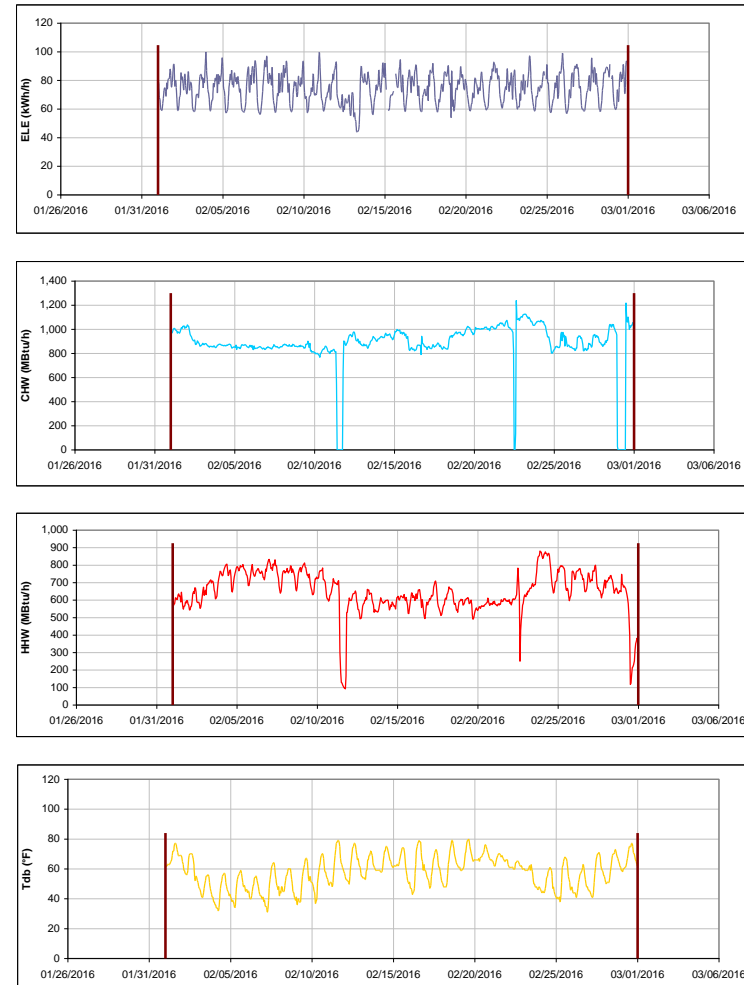


Figure III-4 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Eppright Residence Hall

TAMU / BLDG #: 0292

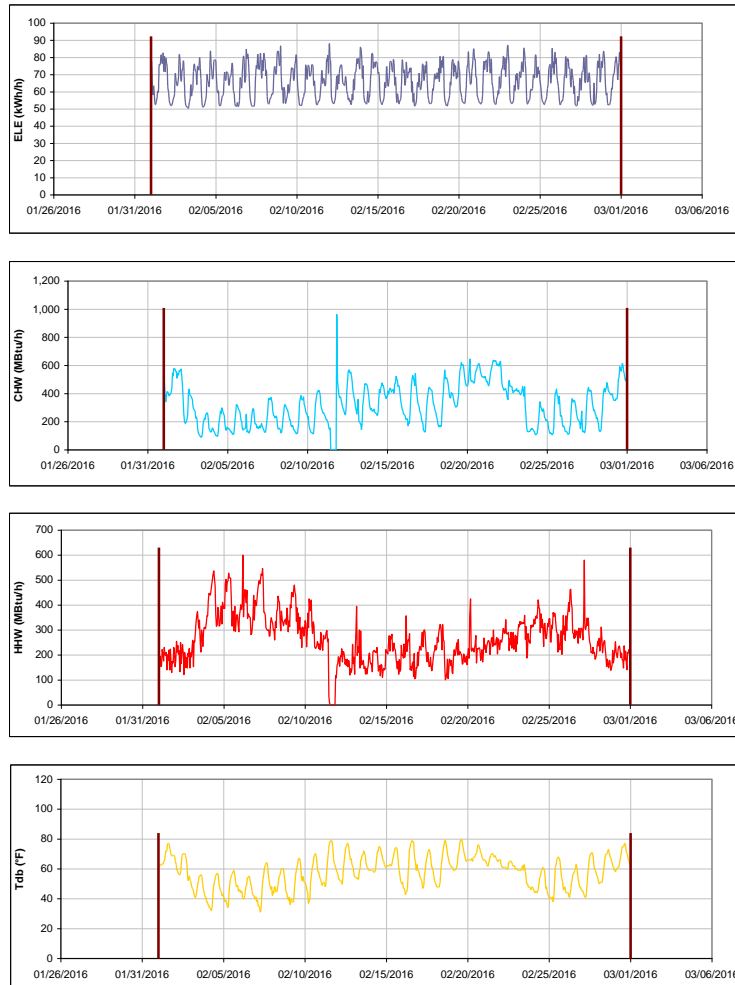


Figure III-5 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Eppright Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Appelt Residence Hall

TAMU / BLDG #: 0293

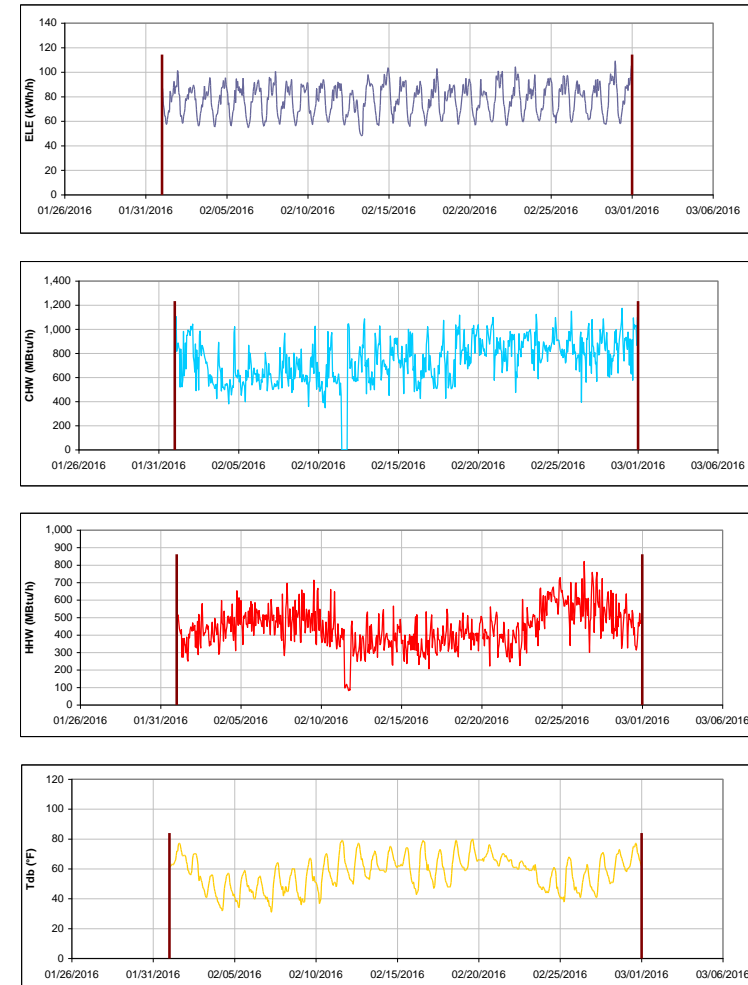


Figure III-6 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Appelt Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Lechner Residence Hall

TAMU / BLDG #: 0294

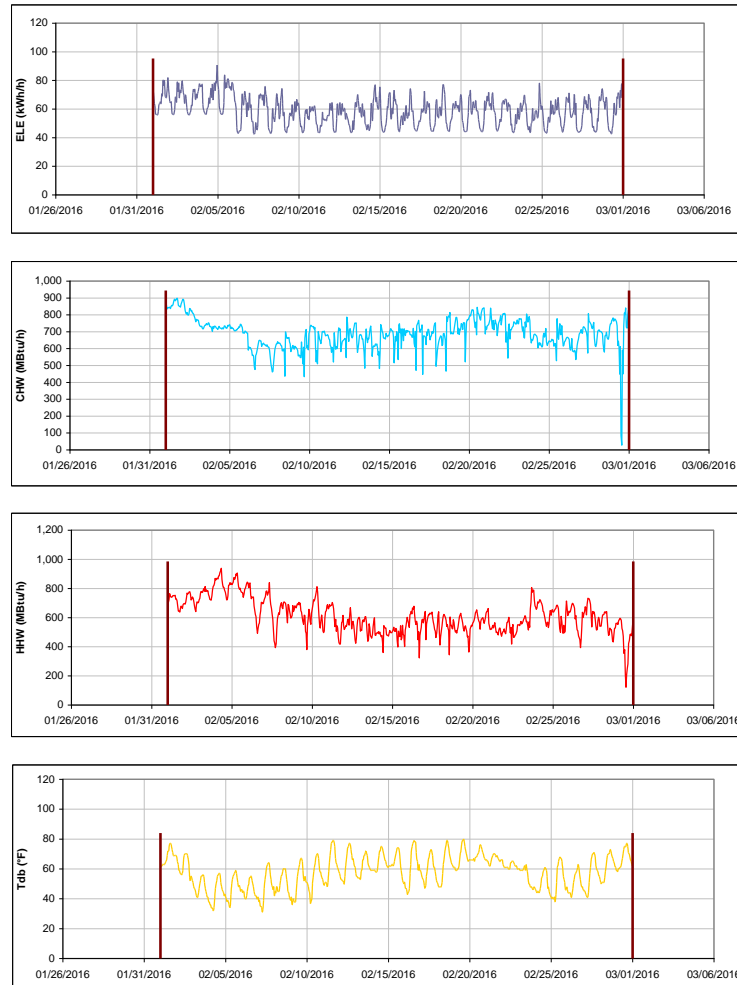


Figure III-7 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lechner Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Mitchell Inst. for Fundamental Phys & Astronomy

TAMU / BLDG #: J296-0297



Figure III-8 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mitchell Inst. for Fundamental Phys & Astronomy during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

CE TTI Office & Lab Building

TAMU / BLDG #: 3325-0385

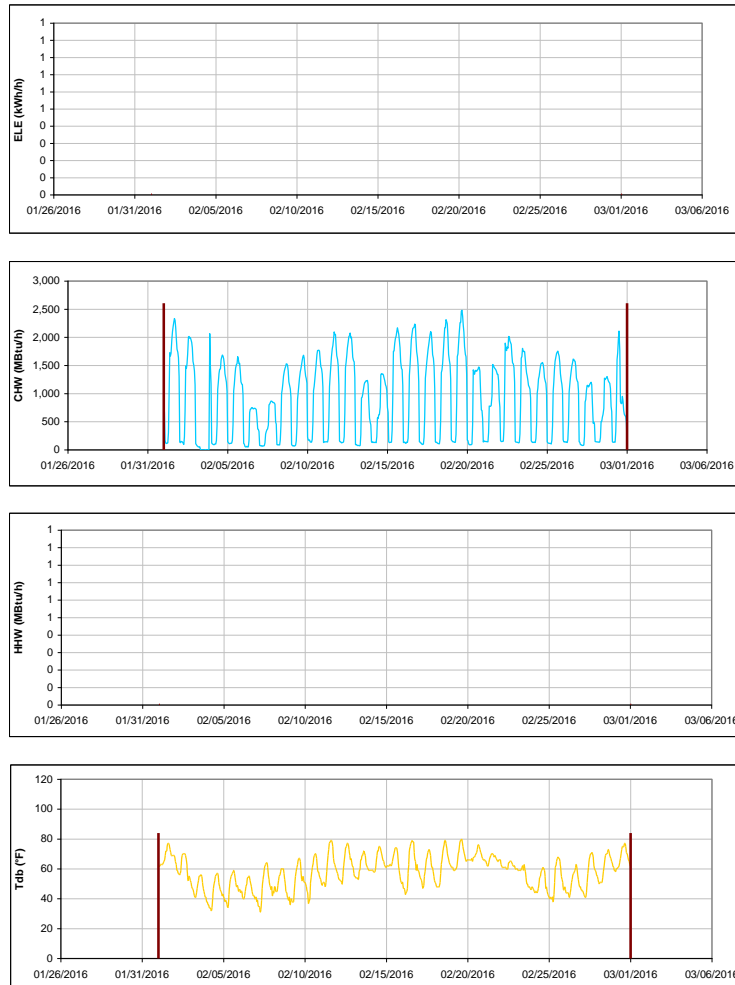


Figure III-9 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for CE TTI Office & Lab Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Bright Aerospace Building

TAMU / BLDG #: 0353

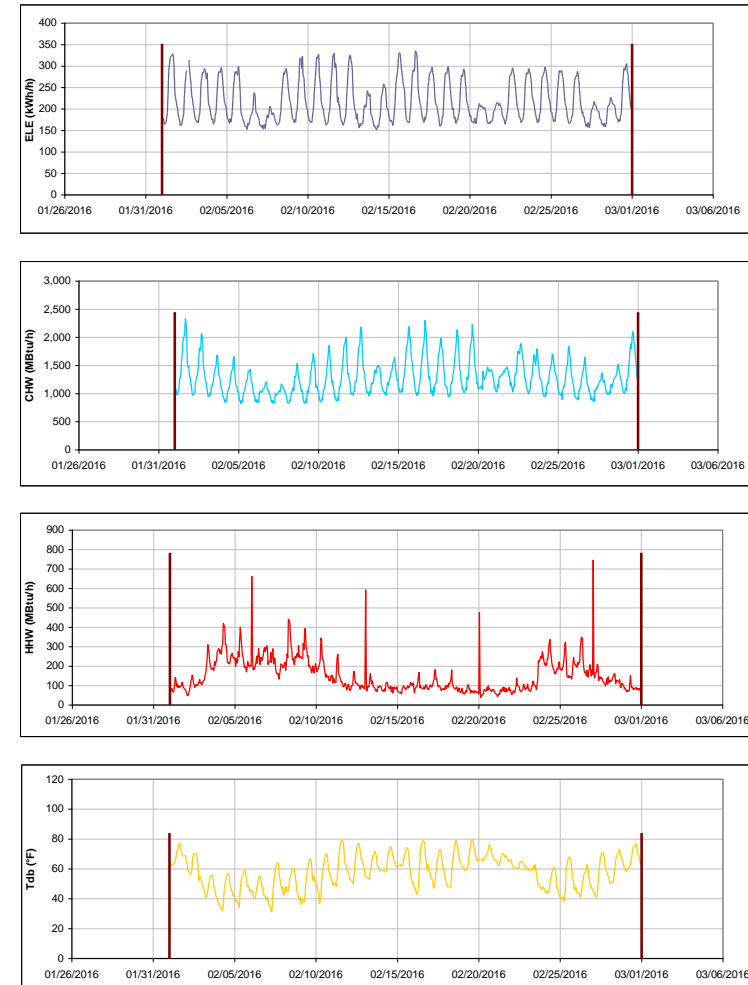


Figure III-10 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bright Aerospace Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Davis Football Player Development Center

TAMU / BLDG #: 0358

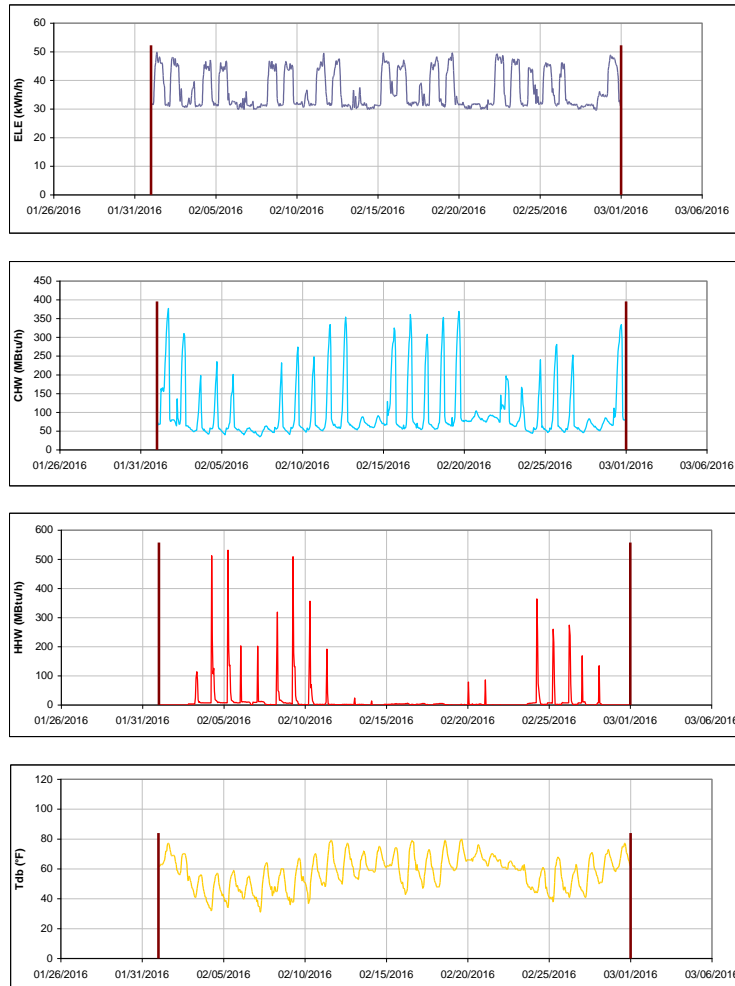


Figure III-11 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Davis Football Player Development Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Architecture Building B&C

TAMU / BLDG #: J359-0432

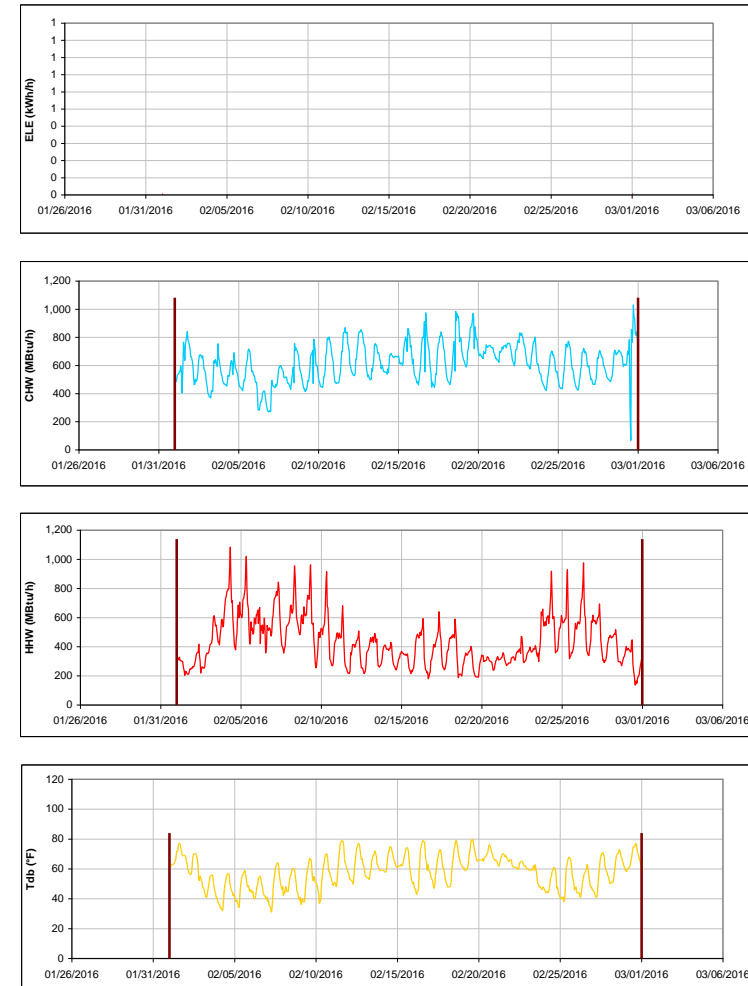


Figure III-12 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building B&C during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Architecture Building B

TAMU / BLDG #: 0359

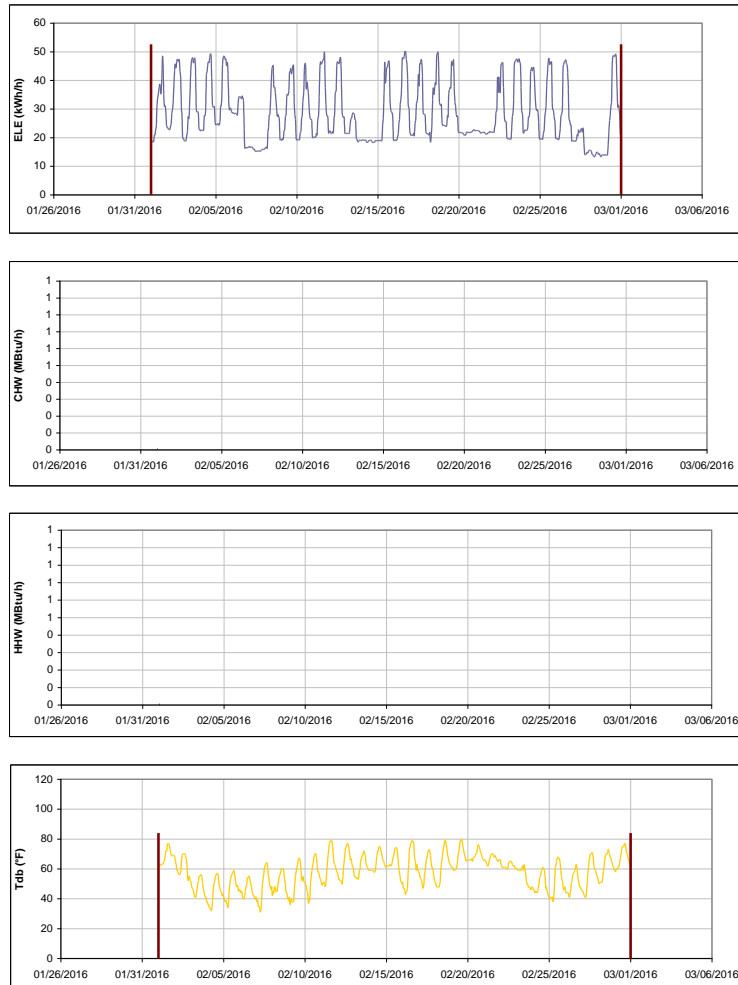


Figure III-13 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building B during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Bright Football Complex

TAMU / BLDG #: 0361

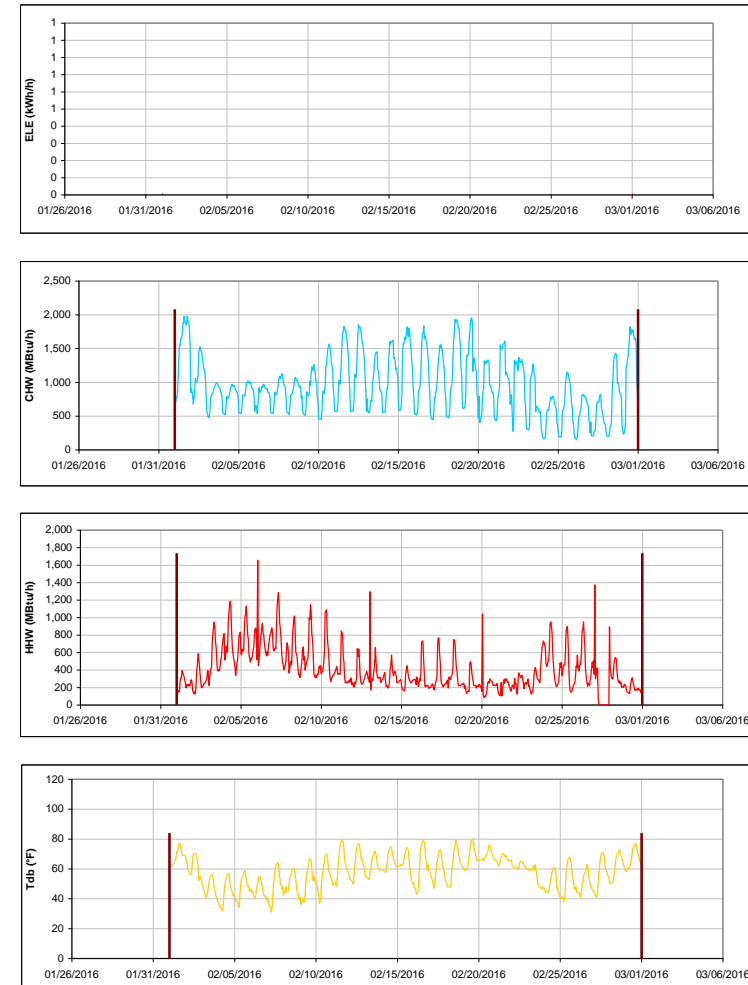


Figure III-14 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bright Football Complex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Kyle Field

TAMU / BLDG #: 0367



Figure III-15 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kyle Field during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Chemistry Building Addition

TAMU / BLDG #: 0376



Figure III-16 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Chemistry Building Addition during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Koldus Building

TAMU / BLDG #: 0383

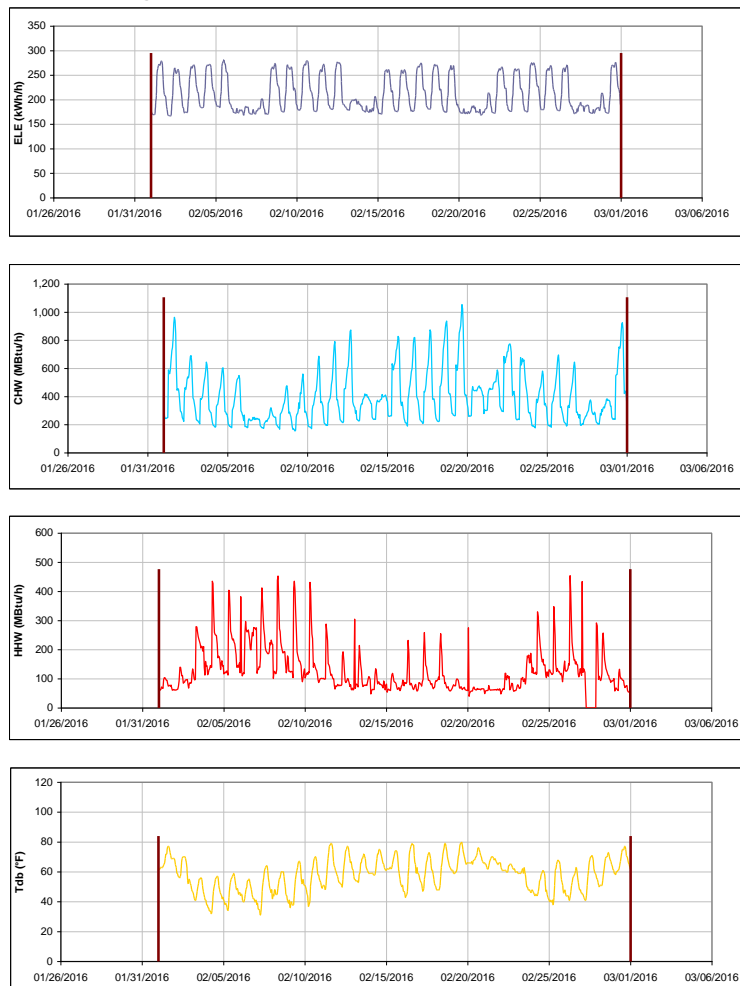


Figure III-17 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Koldus Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Sanders Corps of Cadets Center

TAMU / BLDG #: 0384

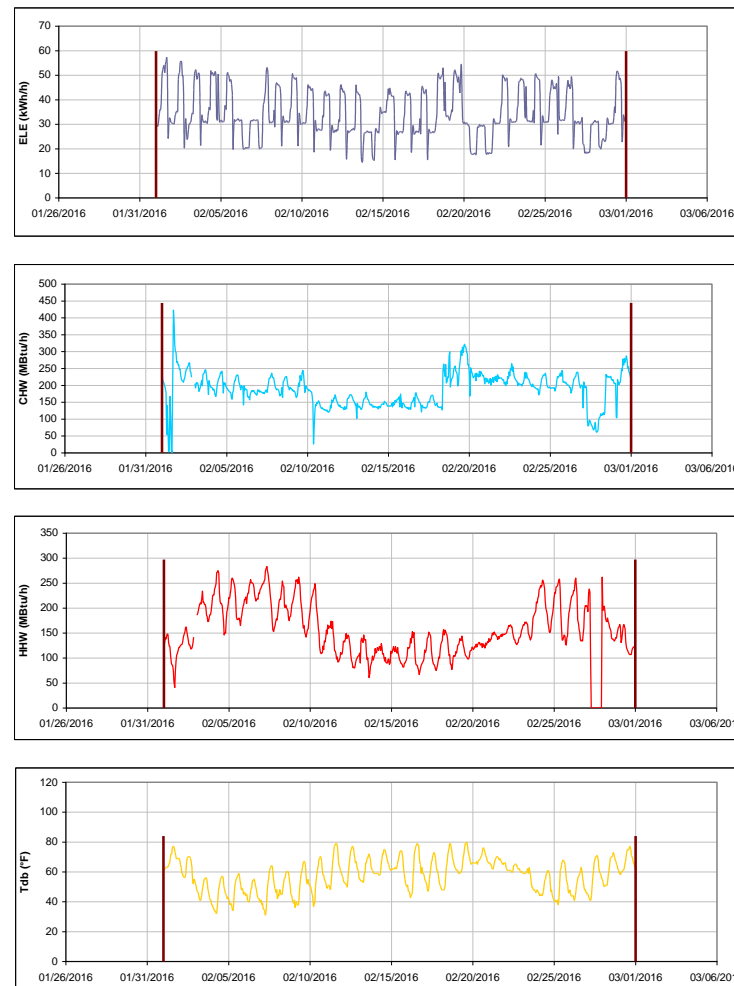


Figure III-18 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Sanders Corps of Cadets Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

CE TTI Office & Lab Building - Pi R Square

TAMU / BLDG #: 0385-A

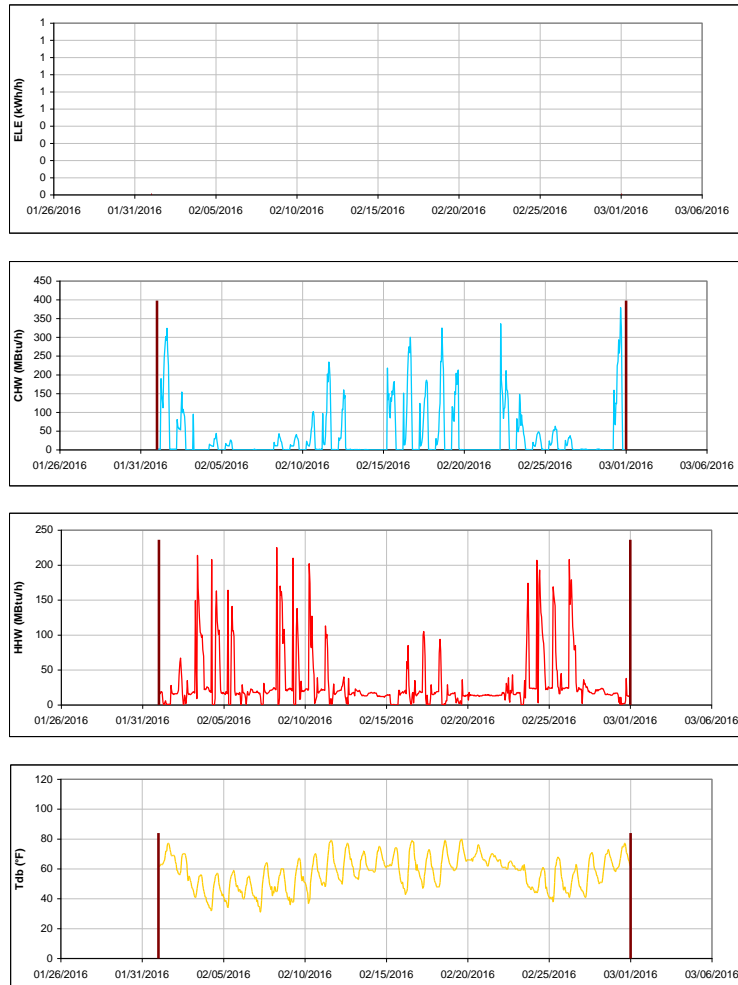


Figure III-19 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for CE TTI Office & Lab Building - Pi R Square during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Jack E. Brown Chemical Engineering Building

TAMU / BLDG #: 0386

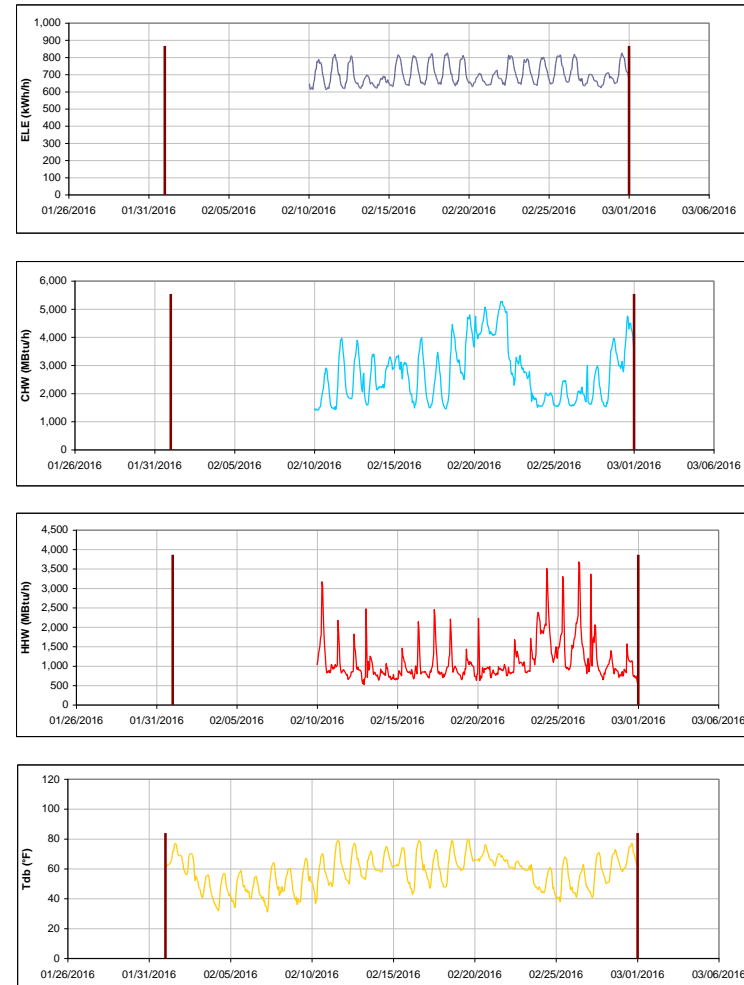


Figure III-20 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Jack E. Brown Chemical Engineering Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Richardson Petroleum Engineering Building

TAMU / BLDG #: 0387



Figure III-21 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Richardson Petroleum Engineering Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

James J. Cain'51 and Mechanical Engineering Office Building

TAMU / BLDG #: 0391-0392

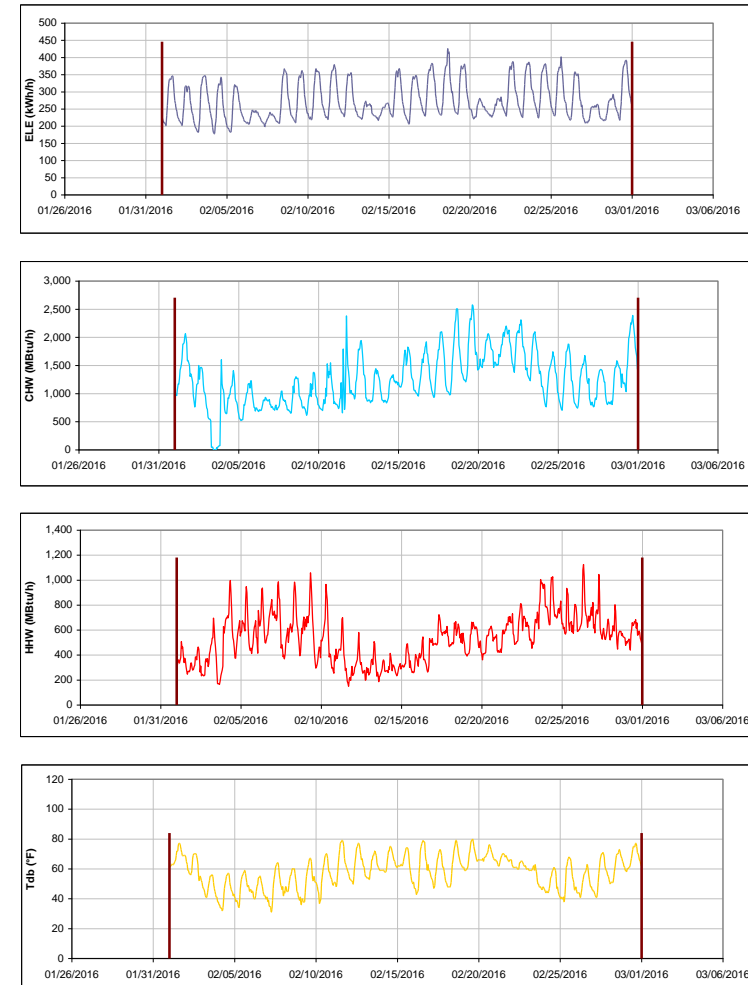


Figure III-22 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for James J. Cain'51 and Mechanical Engineering Office Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Underwood Residence Hall

TAMU / BLDG #: 0394

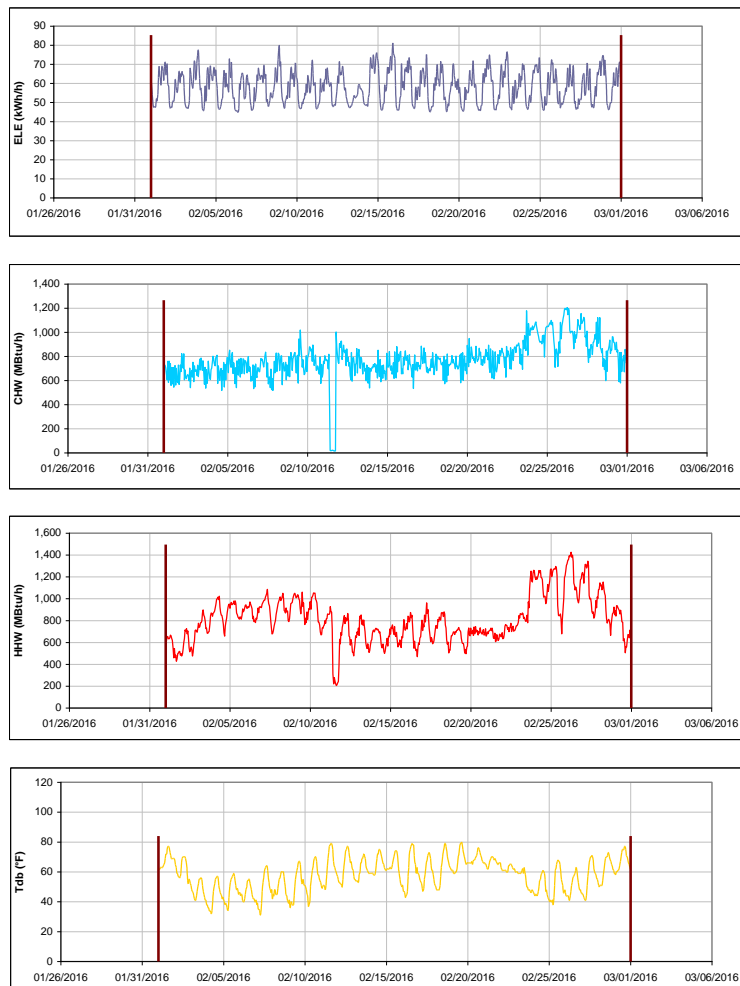


Figure III-23 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Underwood Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Langford Architecture Center Building A

TAMU / BLDG #: 0398



Figure III-24 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Langford Architecture Center Building A during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center / BLDG #: 15-0407-1402

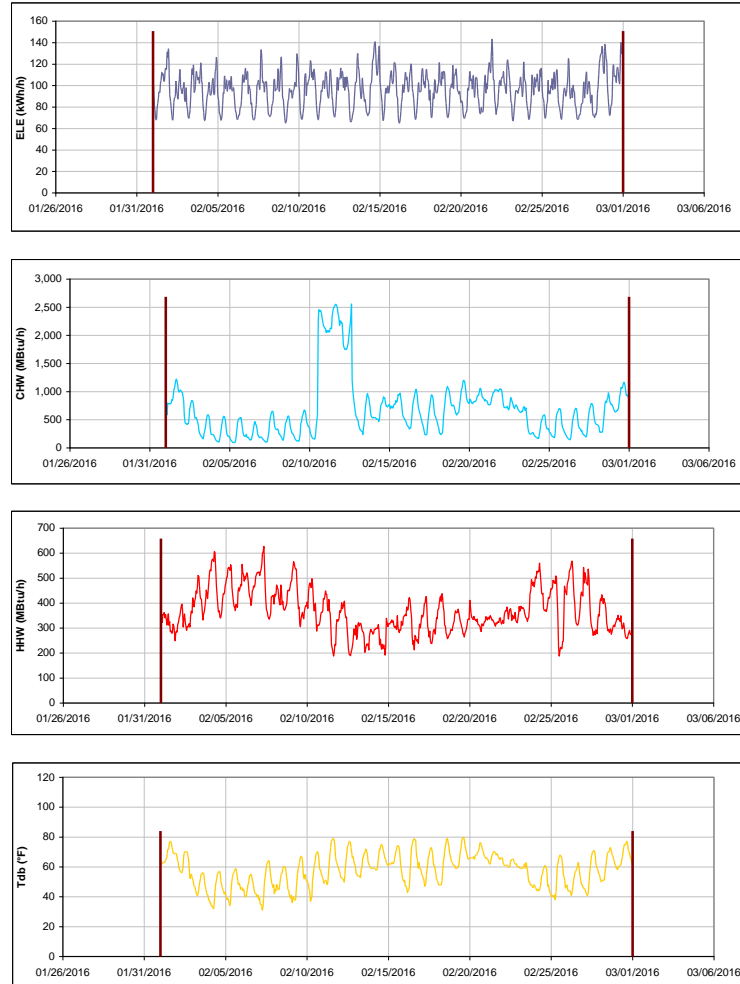


Figure III-25 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Lacy Hall - Dorm 6

TAMU / BLDG #: 0405

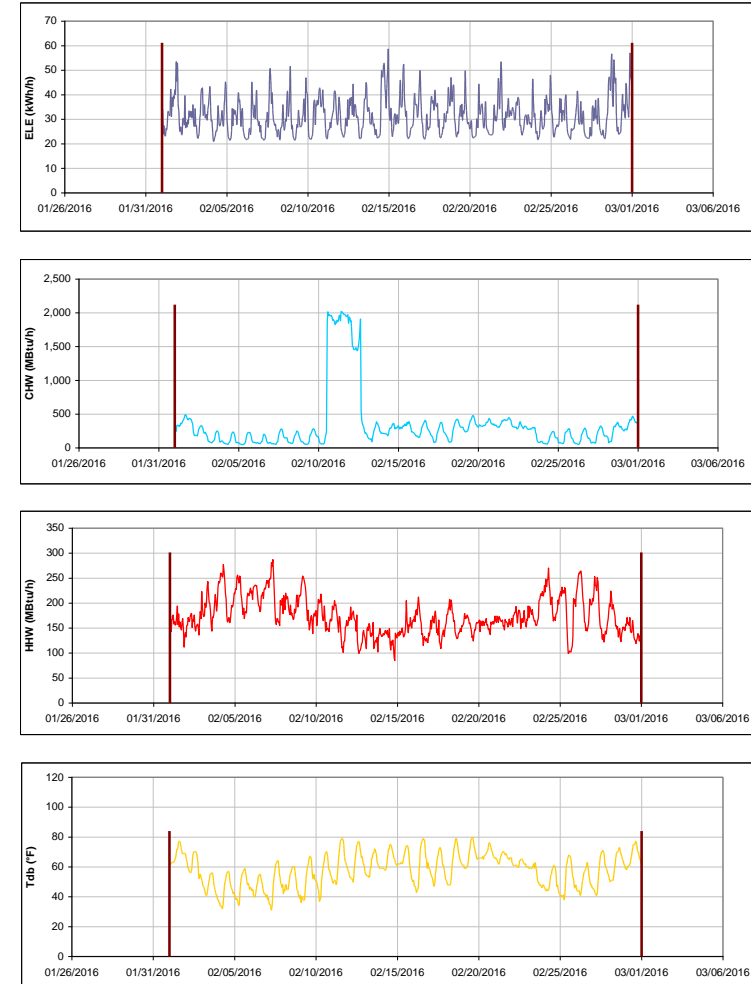


Figure III-26 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Lacy Hall - Dorm 6 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Harrell Hall - Dorm 8

TAMU / BLDG #: 0407

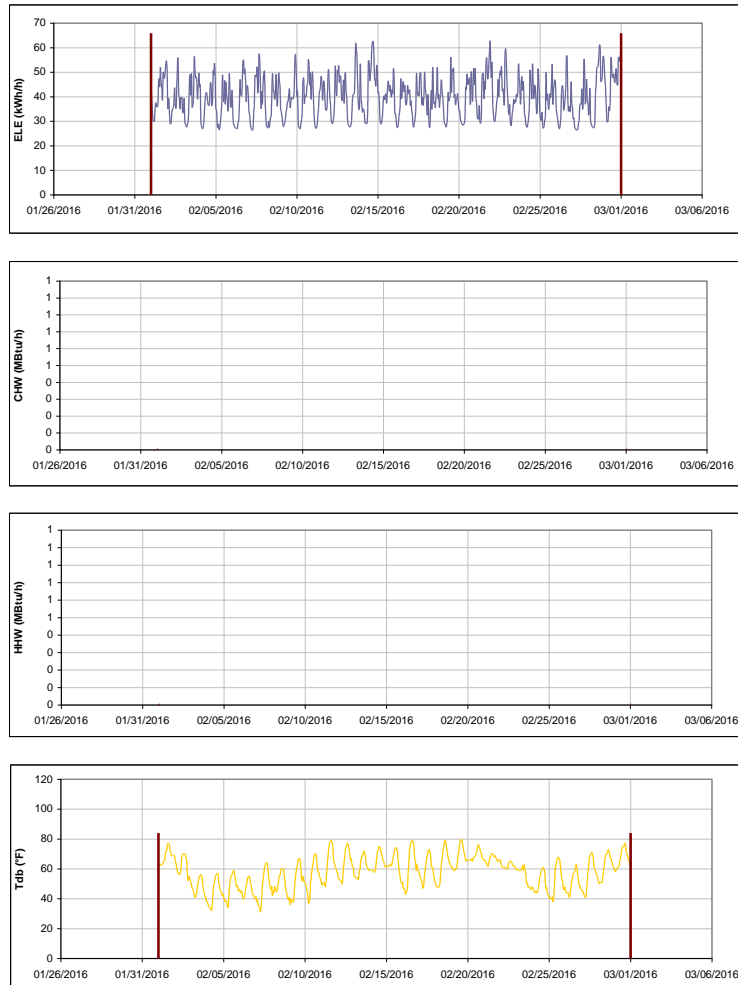


Figure III-27 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrell Hall - Dorm 8 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Buzbee Leadership Learning Center

TAMU / BLDG #: 1402



Figure III-28 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Buzbee Leadership Learning Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Leonard Hall - Dorm 7 and Ash LLC

TAMU / BLDG #: J406-1403



Figure III-29 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Leonard Hall - Dorm 7 and Ash LLC during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Leonard Hall - Dorm 7

TAMU / BLDG #: 0406

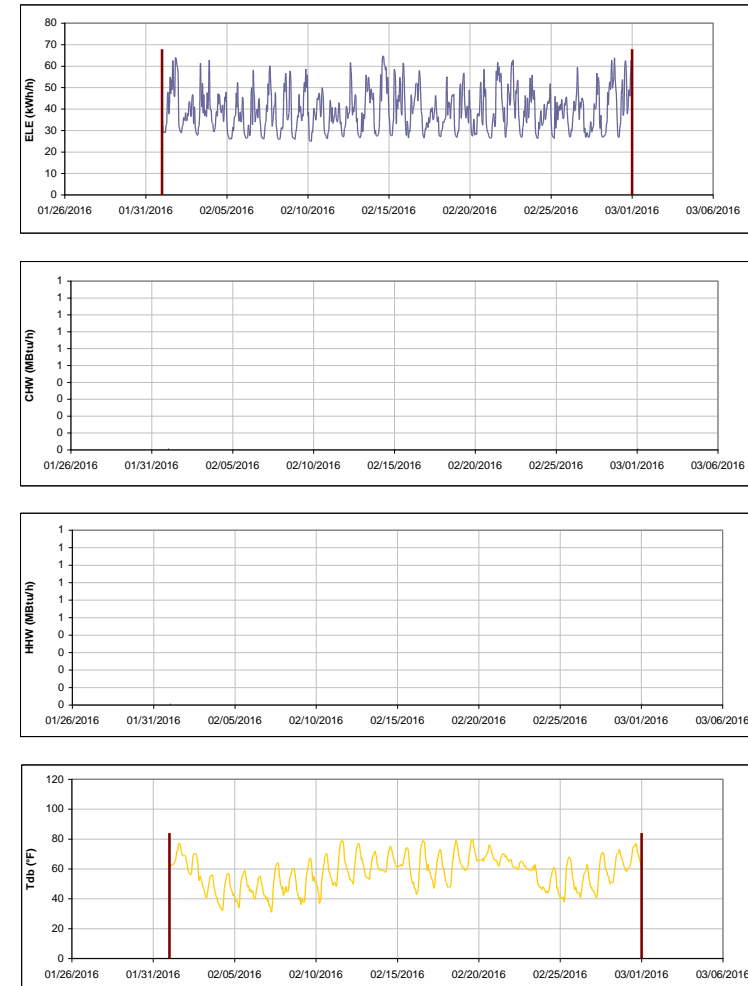


Figure III-30 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Leonard Hall - Dorm 7 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

H. Grady Ash, Jr. '58 Leadership Learning Center

TAMU / BLDG #: 1403

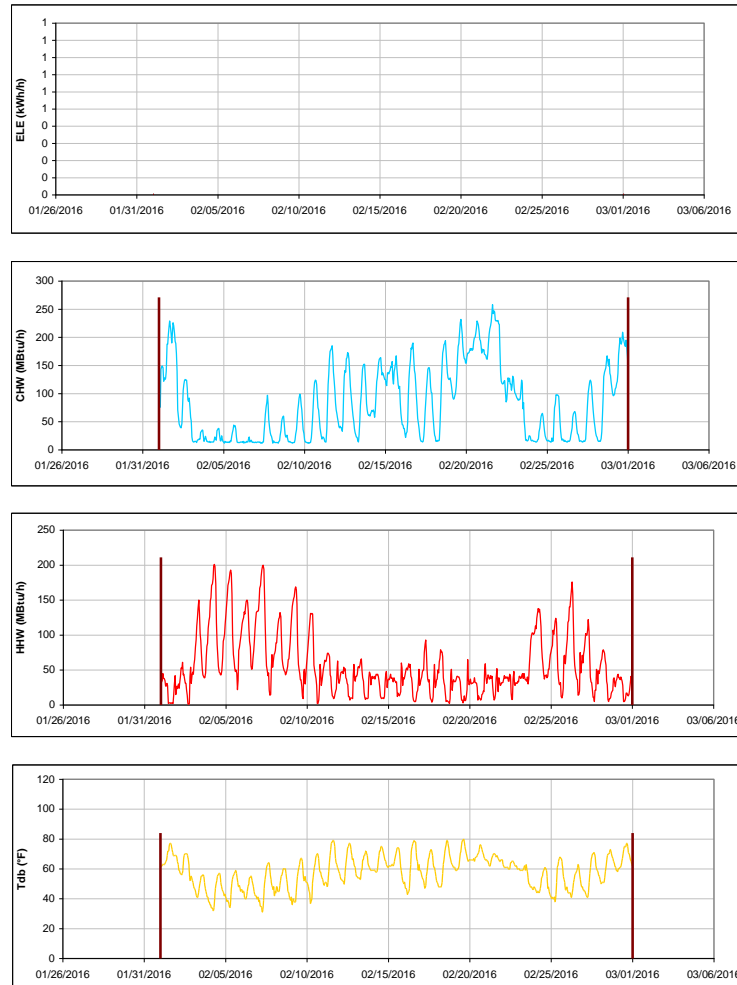


Figure III-31 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for H. Grady Ash, Jr. '58 Leadership Learning Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Whitely Hall - Dorm 9

TAMU / BLDG #: 0408

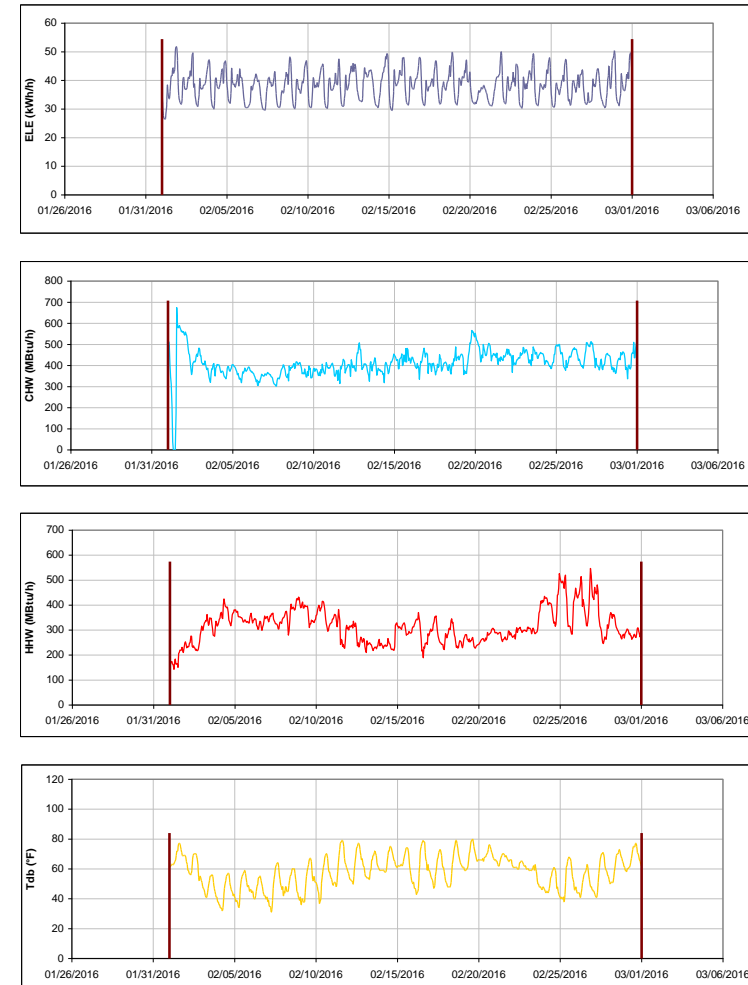


Figure III-32 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Whitely Hall - Dorm 9 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

White Hall - Dorm 10

TAMU / BLDG #: 0409

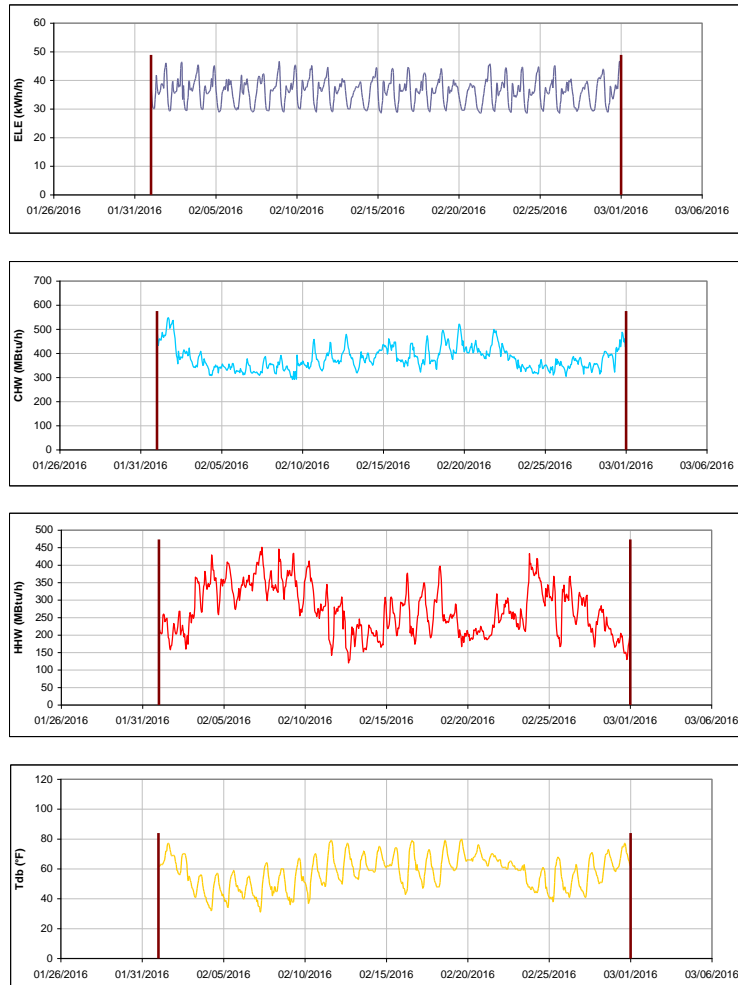


Figure III-33 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Hall - Dorm 10 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Harrington Hall - Dorm 11

TAMU / BLDG #: 0410

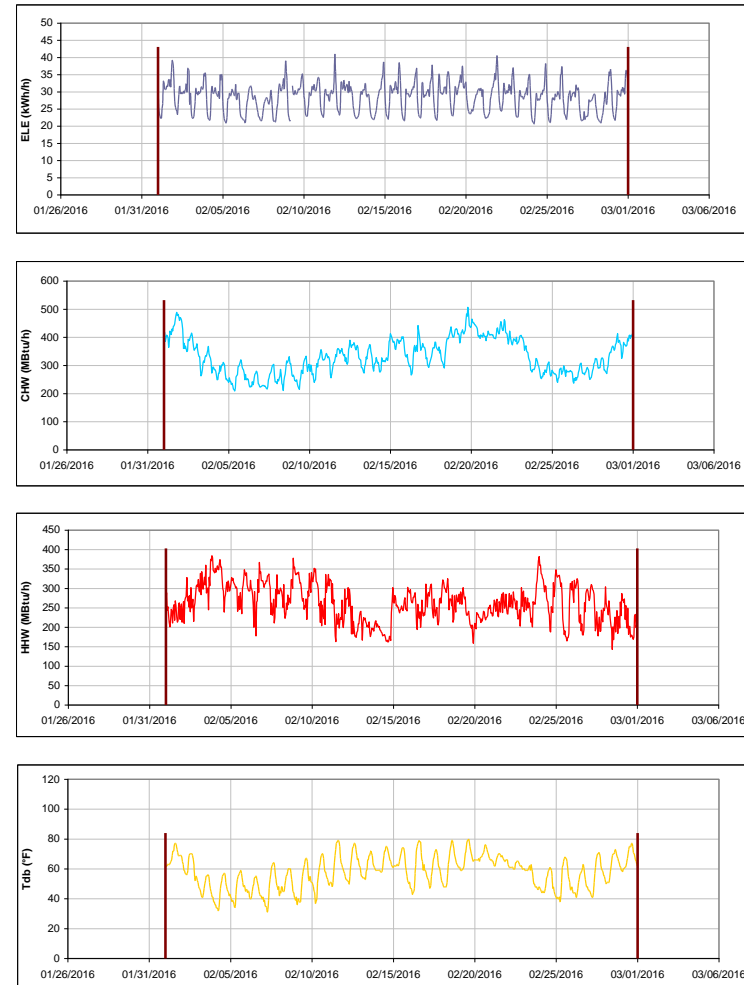


Figure III-34 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Hall - Dorm 11 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utay Hall - Dorm 12

TAMU / BLDG #: 0411

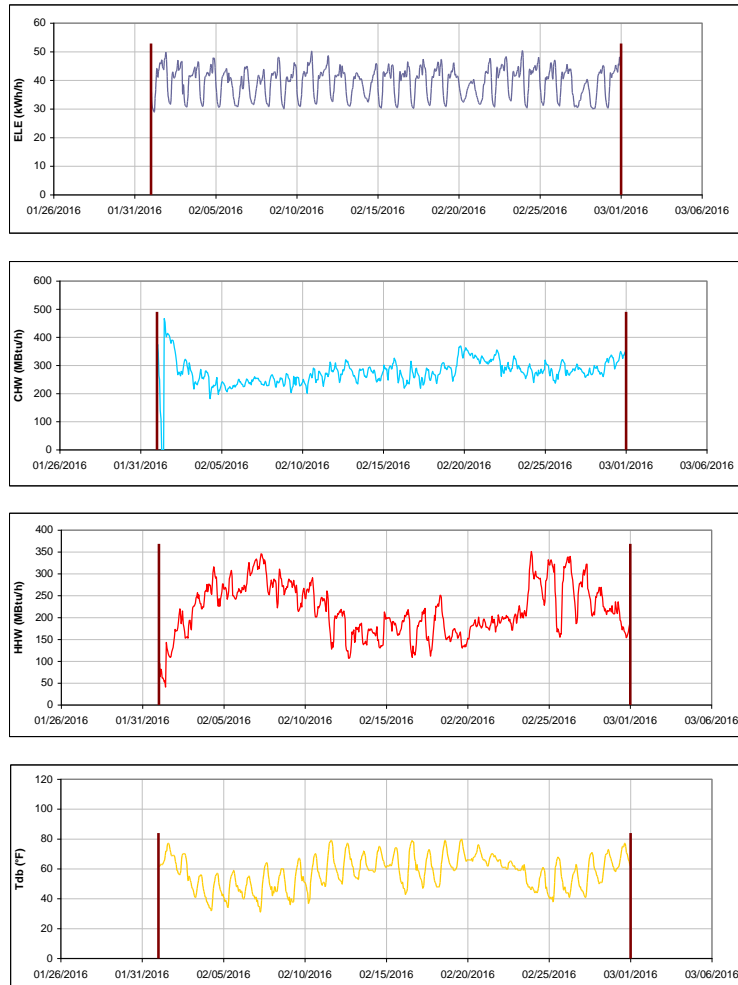


Figure III-35 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utay Hall - Dorm 12 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Moses Residence Hall

TAMU / BLDG #: 0412

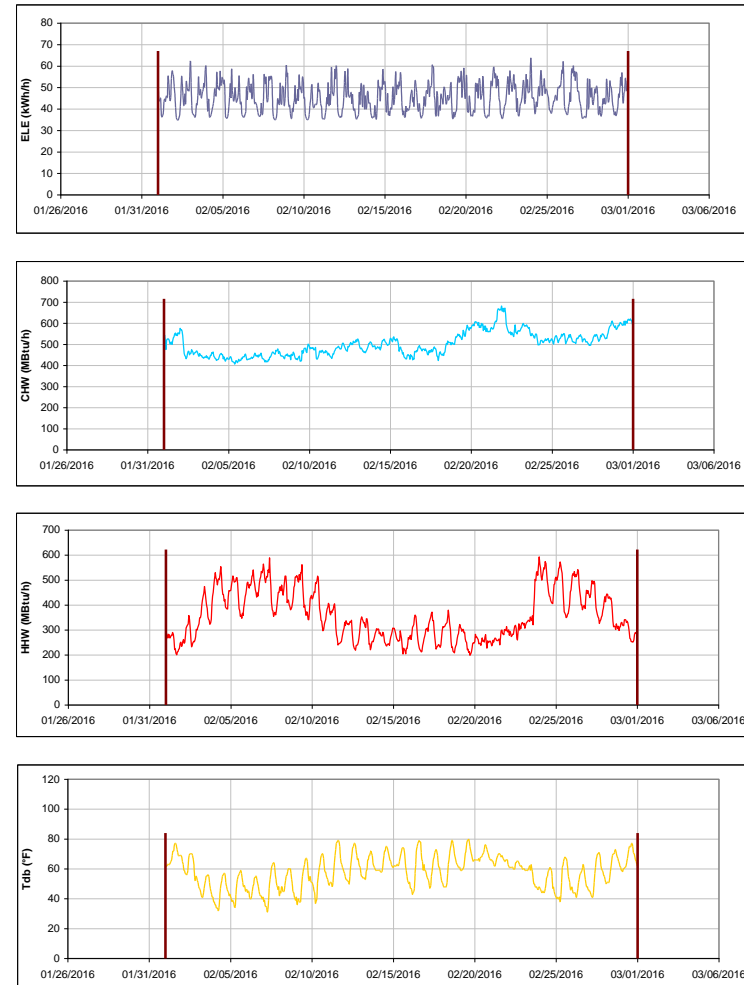


Figure III-36 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Moses Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Davis-Gary Residence Hall

TAMU / BLDG #: 0415

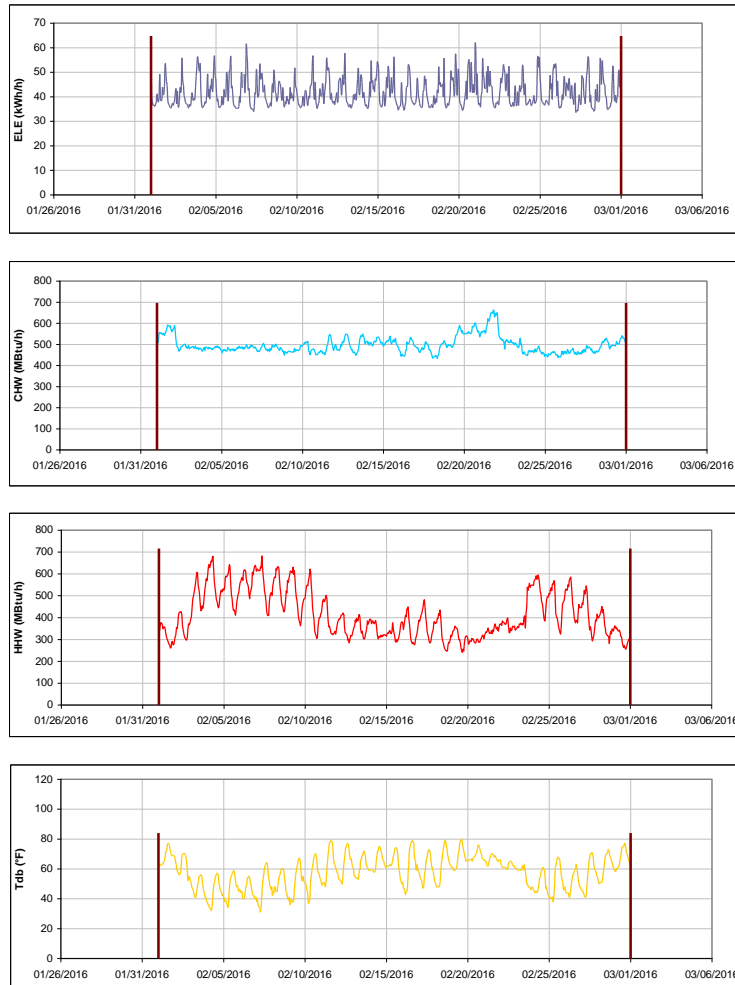


Figure III-37 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Davis-Gary Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Legett Residence Hall

TAMU / BLDG #: 0419



Figure III-38 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Legett Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Milner Hall

TAMU / BLDG #: 0420

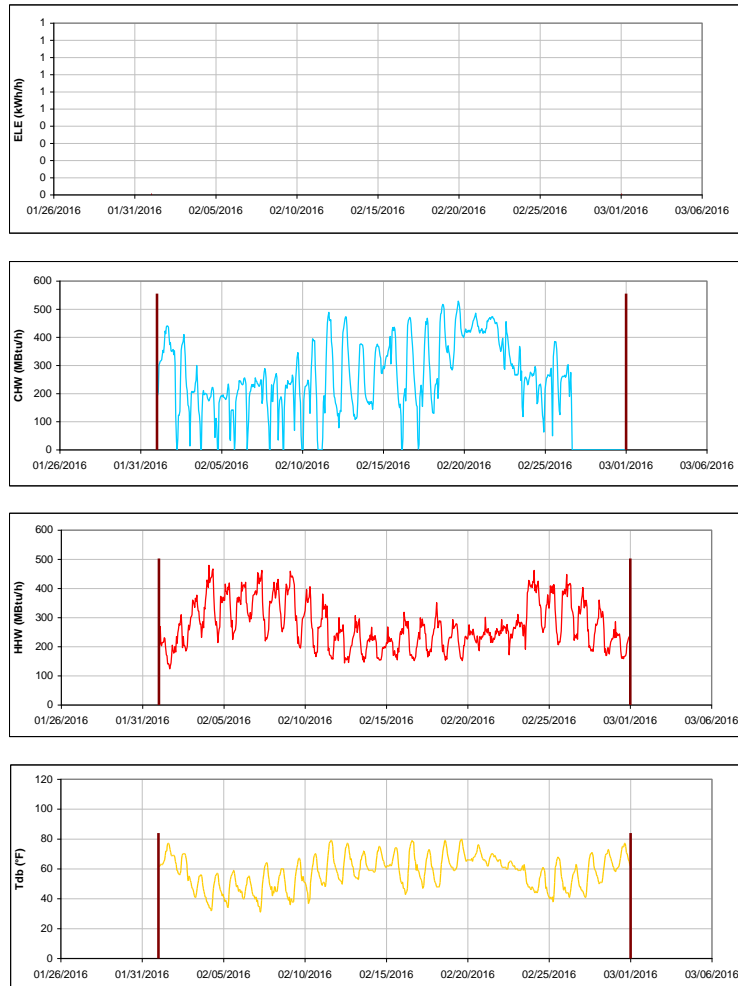


Figure III-39 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Milner Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Walton Residence Hall

TAMU / BLDG #: 0422

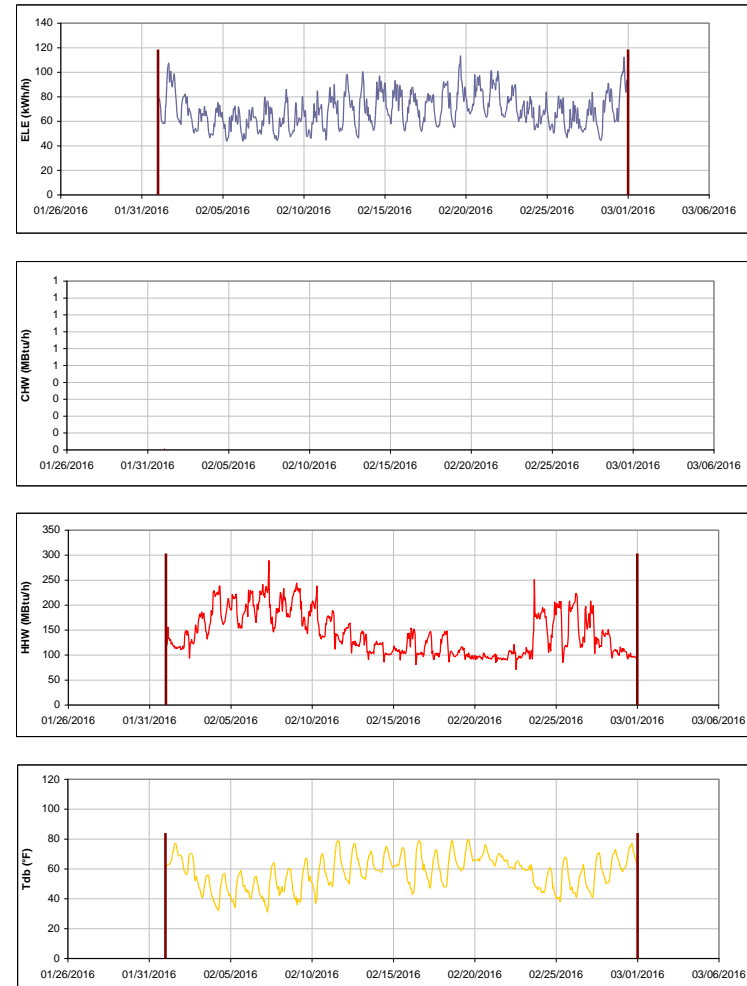


Figure III-40 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Walton Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Hotard Hall

TAMU / BLDG #: 0424

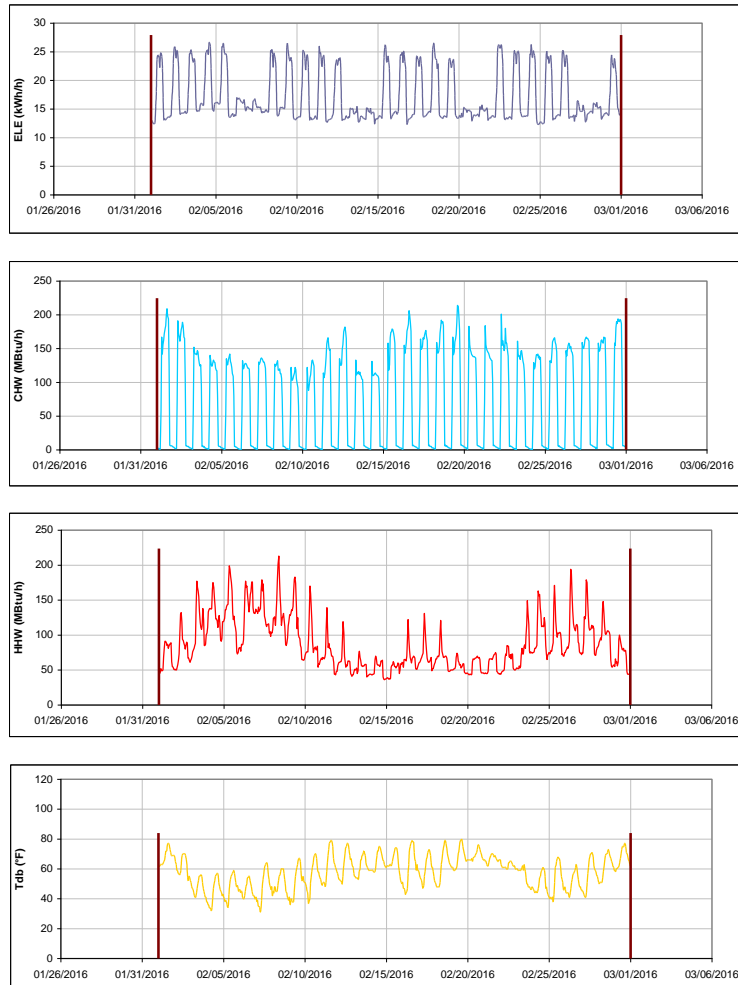


Figure III-41 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hotard Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Henderson Hall

TAMU / BLDG #: 0425

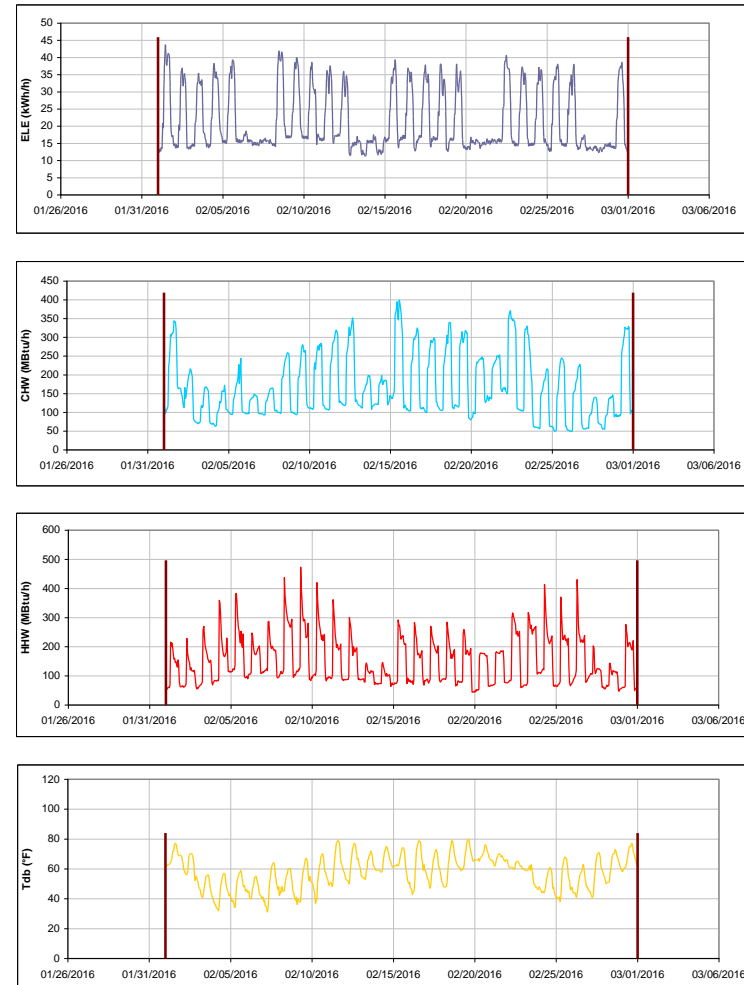


Figure III-42 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Henderson Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

FBK Complex

TAMU / BLDG #: 0426

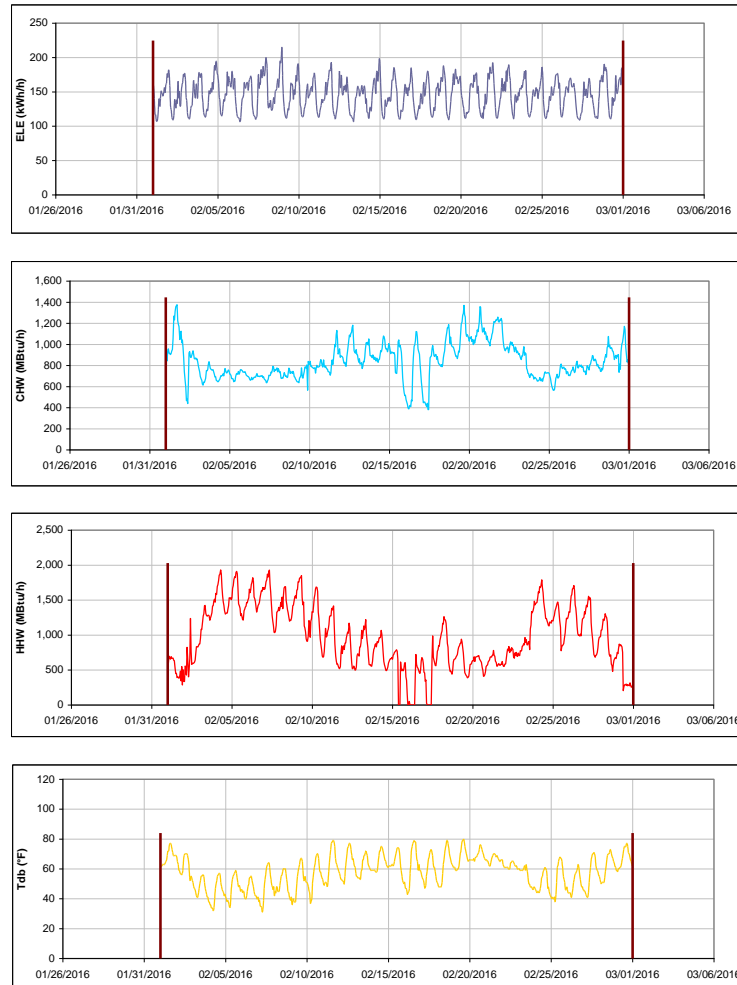


Figure III-43 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for FBK Complex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Schumacher Residence Hall

TAMU / BLDG #: 0430

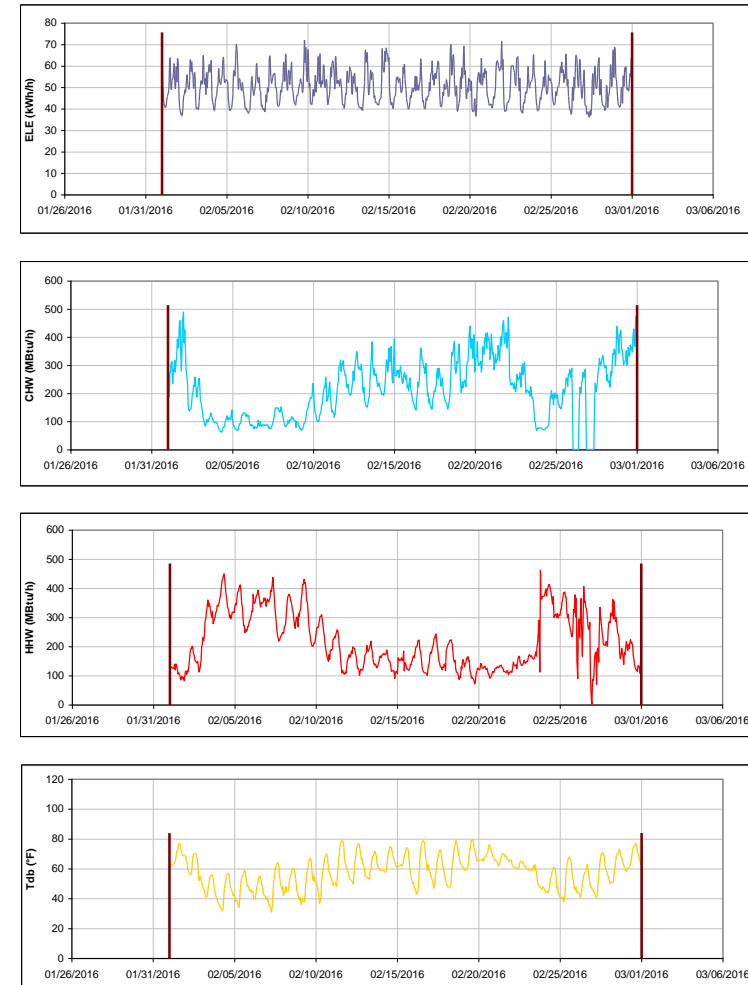


Figure III-44 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Schumacher Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Architecture Building C

TAMU / BLDG #: 0432

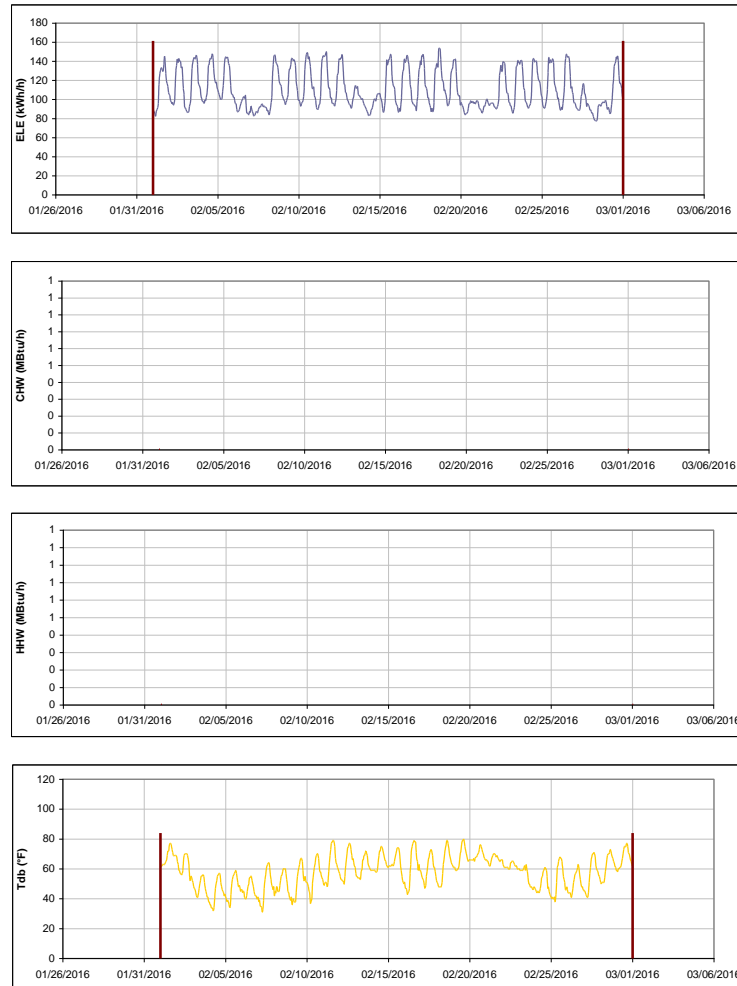


Figure III-45 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Architecture Building C during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Mosher Commons Krueger Dunn Aston

TAMU / BLDG #: 0-0441-0442-0447

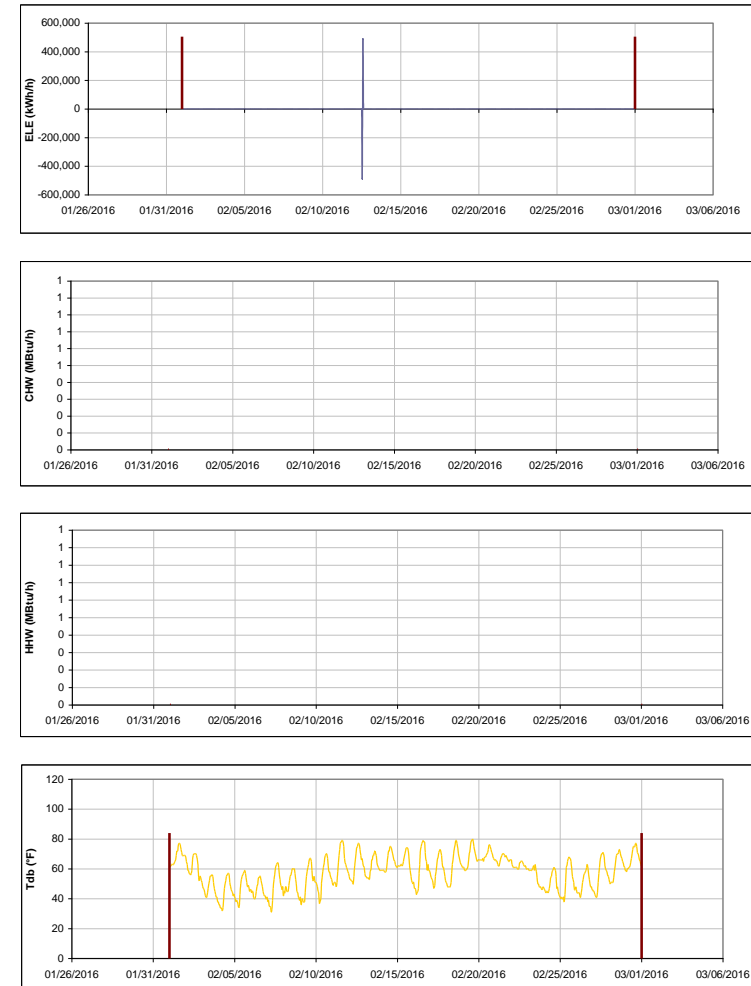


Figure III-46 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mosher Commons Krueger Dunn Aston during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Mosher Residence Hall

TAMU / BLDG #: 0433

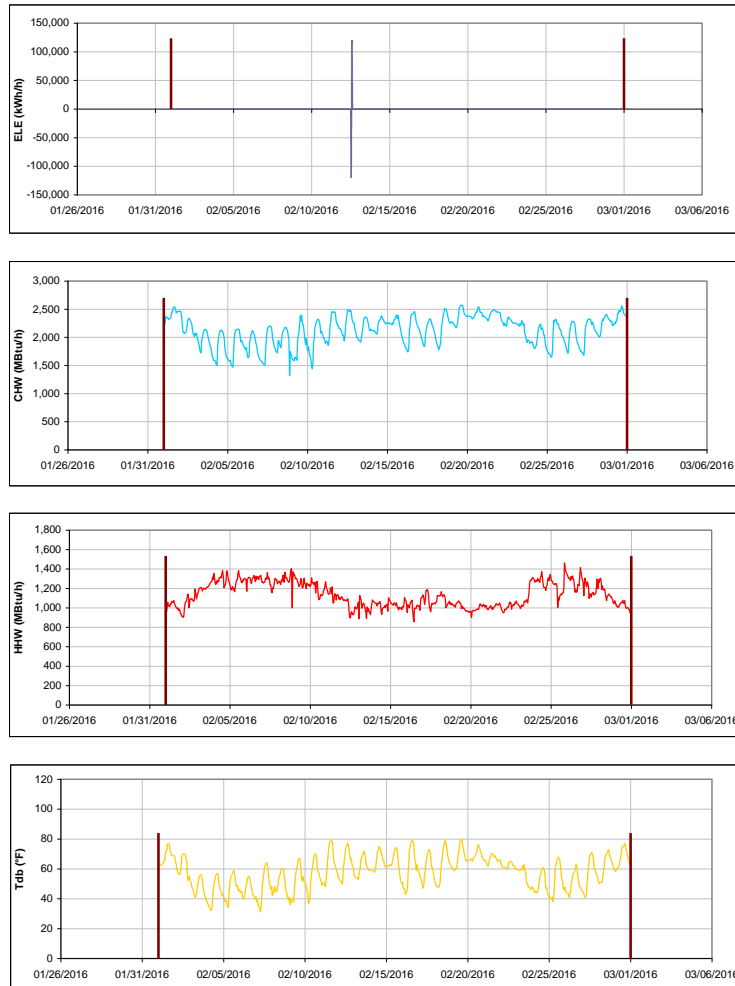


Figure III-47 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Mosher Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Krueger Residence Hall

TAMU / BLDG #: 0441



Figure III-48 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Krueger Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Dunn Residence Hall

TAMU / BLDG #: 0442

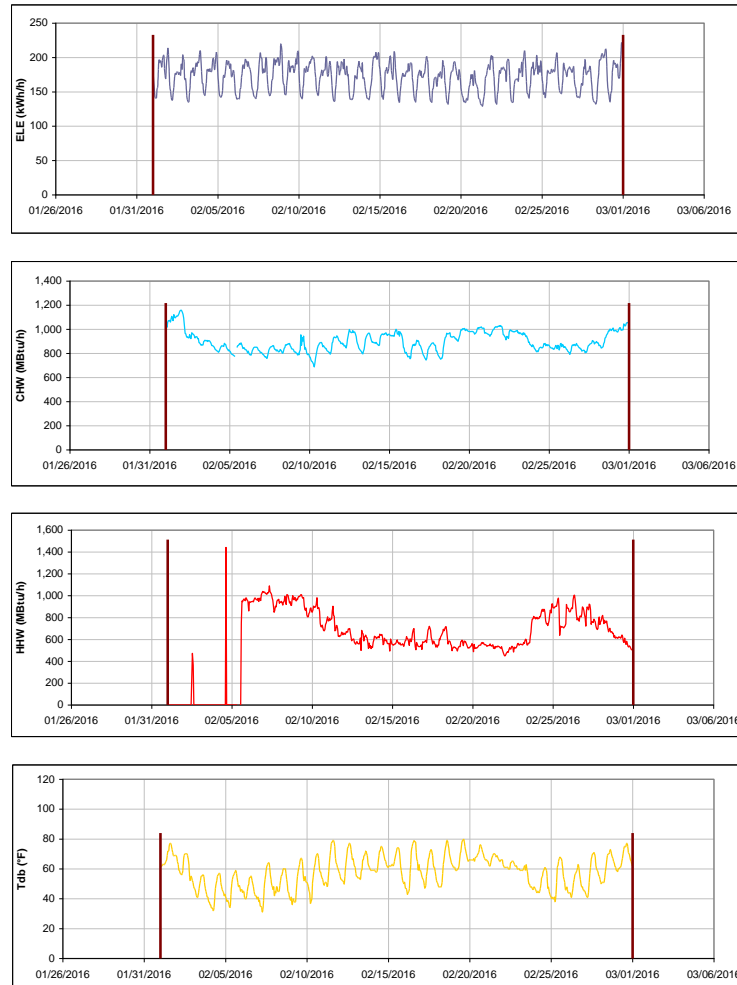


Figure III-49 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Dunn Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Aston Residence Hall

TAMU / BLDG #: 0447

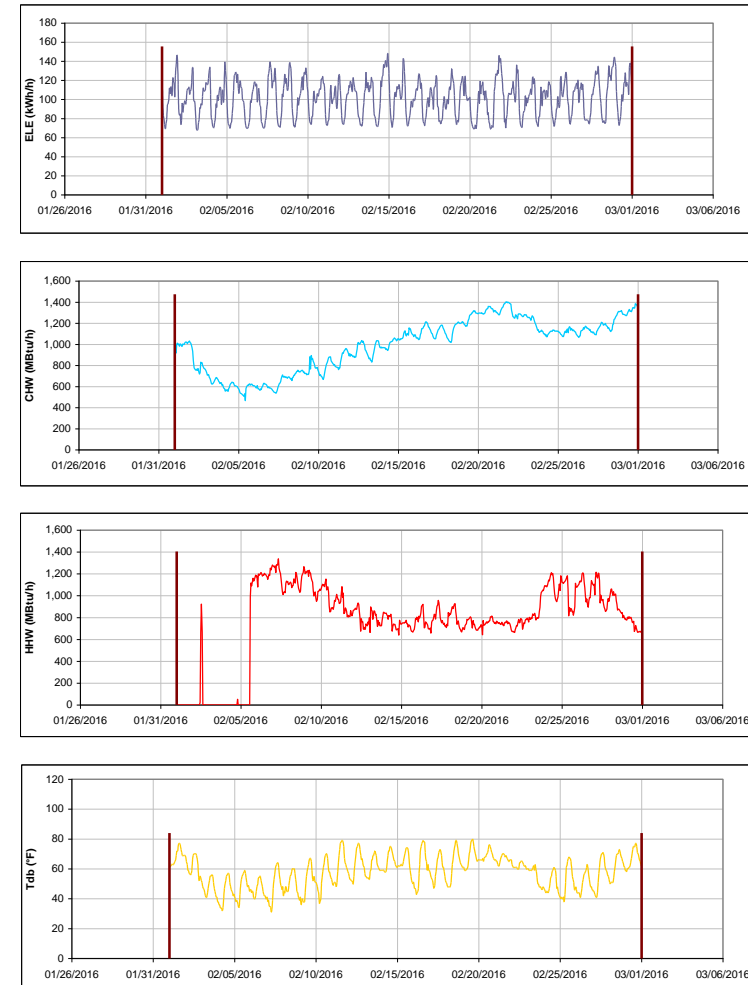


Figure III-50 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Aston Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Luedecke Building (Cyclotron)

TAMU / BLDG #: 0434



Figure III-51 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Luedecke Building (Cyclotron) during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Harrington Education Center Office Tower

TAMU / BLDG #: 0435



Figure III-52 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Education Center Office Tower during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reed-McDonald and Engineering Innovation Center TAMU / BLDG #: J436-0499

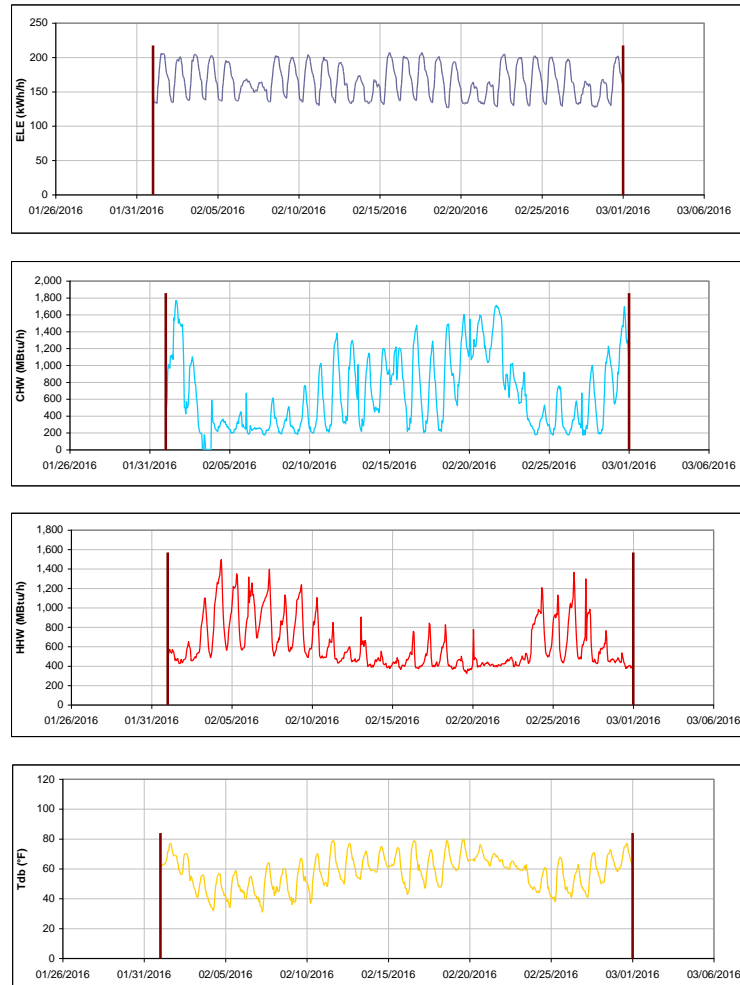


Figure III-53 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed-McDonald and Engineering Innovation Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reed-McDonald Building

TAMU / BLDG #: 0436



Figure III-54 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed-McDonald Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Engineering Innovation Center

TAMU / BLDG #: 0499

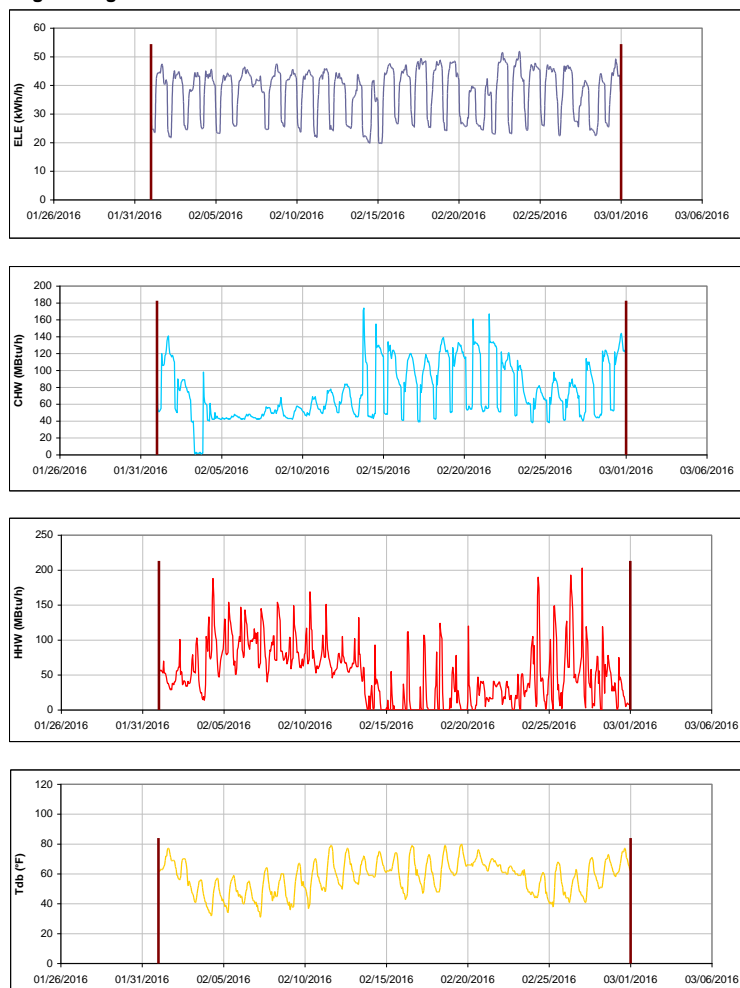


Figure III-55 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Engineering Innovation Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Harrington Education Center Classroom Building

TAMU / BLDG #: 0438

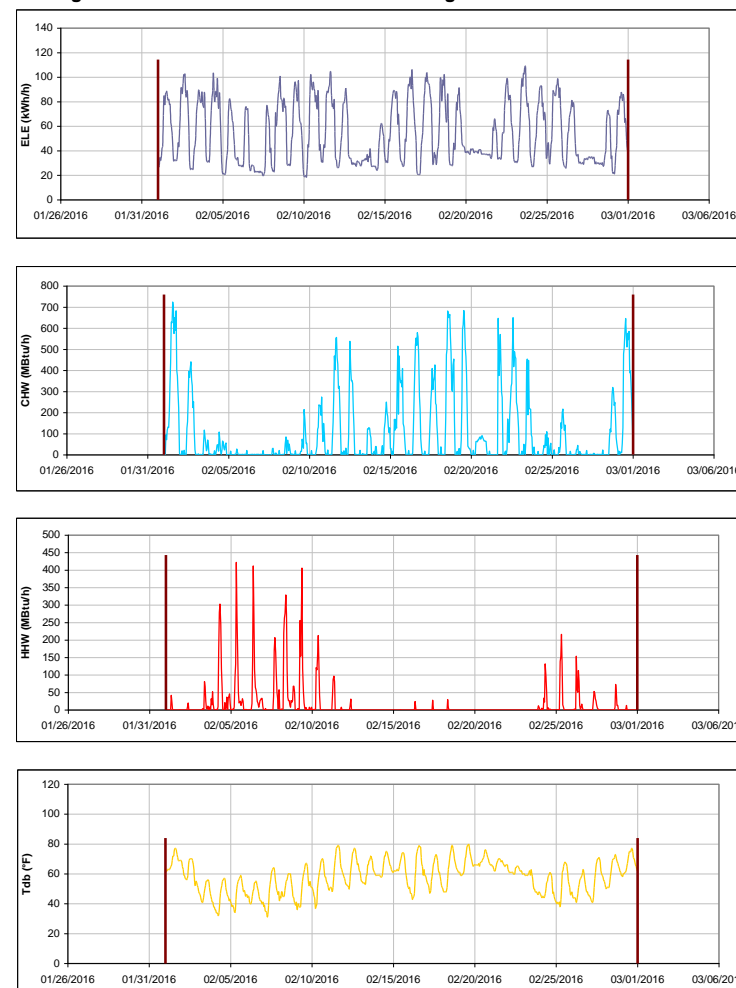


Figure III-56 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Harrington Education Center Classroom Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Oceanography & Meteorology Building

TAMU / BLDG #: 0443

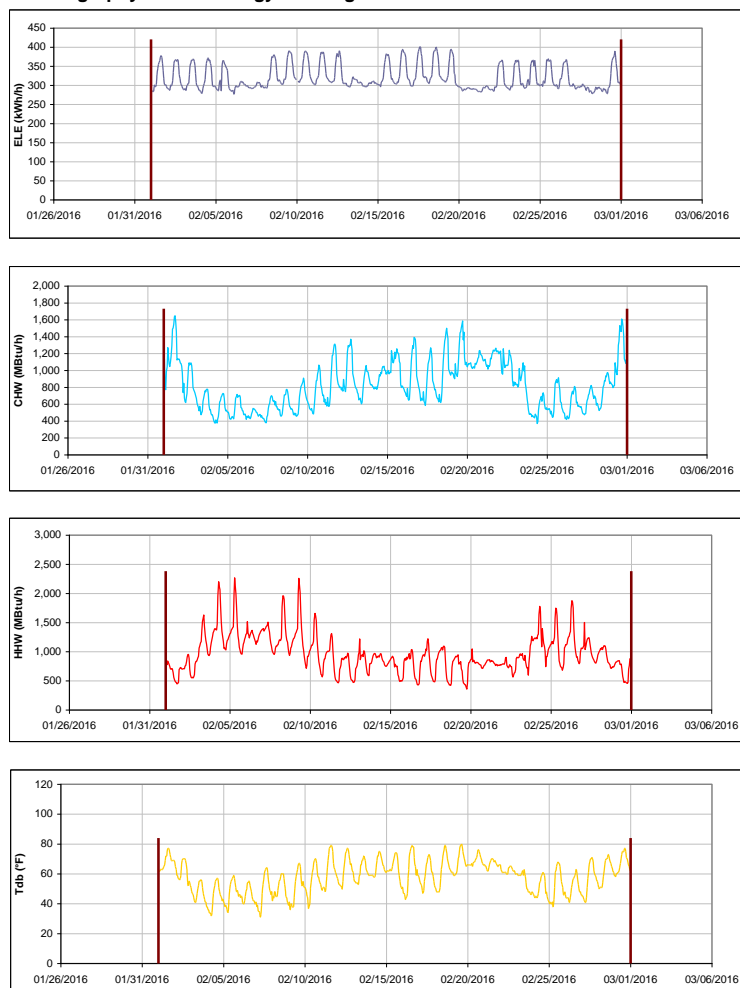


Figure III-57 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Oceanography & Meteorology Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Peterson Building

TAMU / BLDG #: 0444

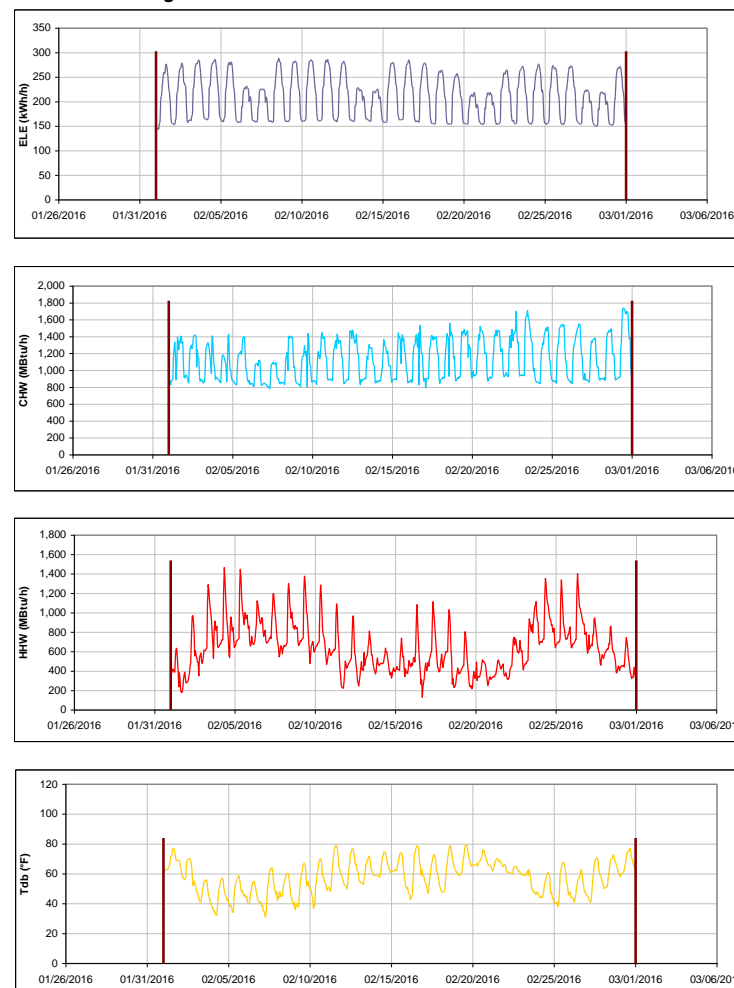


Figure III-58 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Peterson Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Teague Research Center and DPC Annex

TAMU / BLDG #: 0445-0517

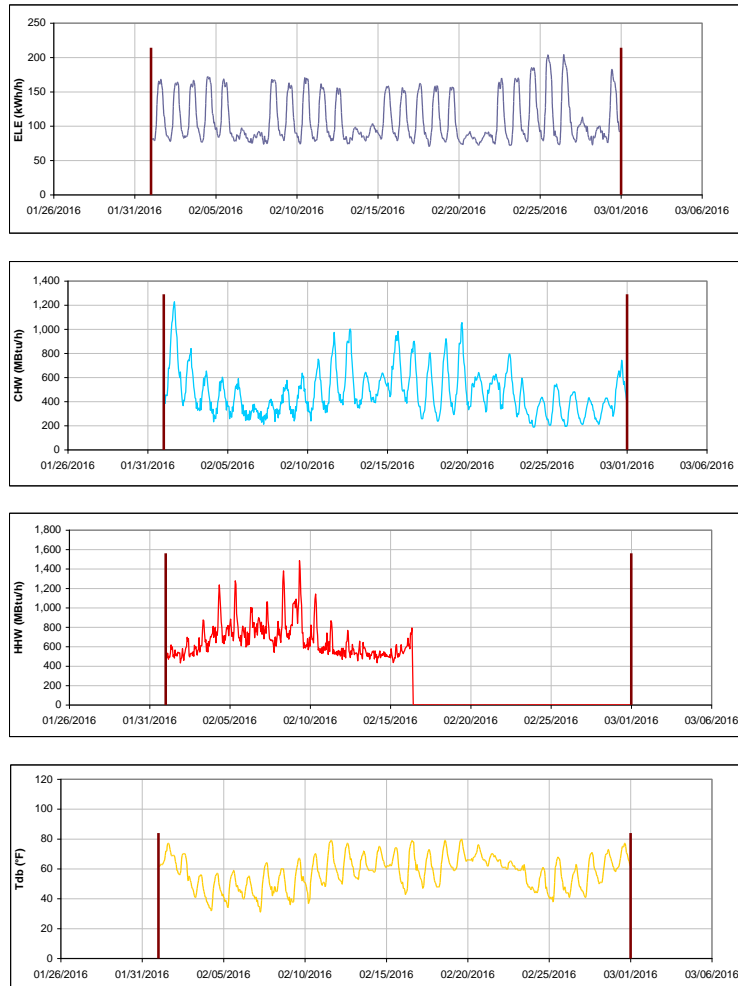


Figure III-59 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Teague Research Center and DPC Annex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Teague Research Center

TAMU / BLDG #: 0445

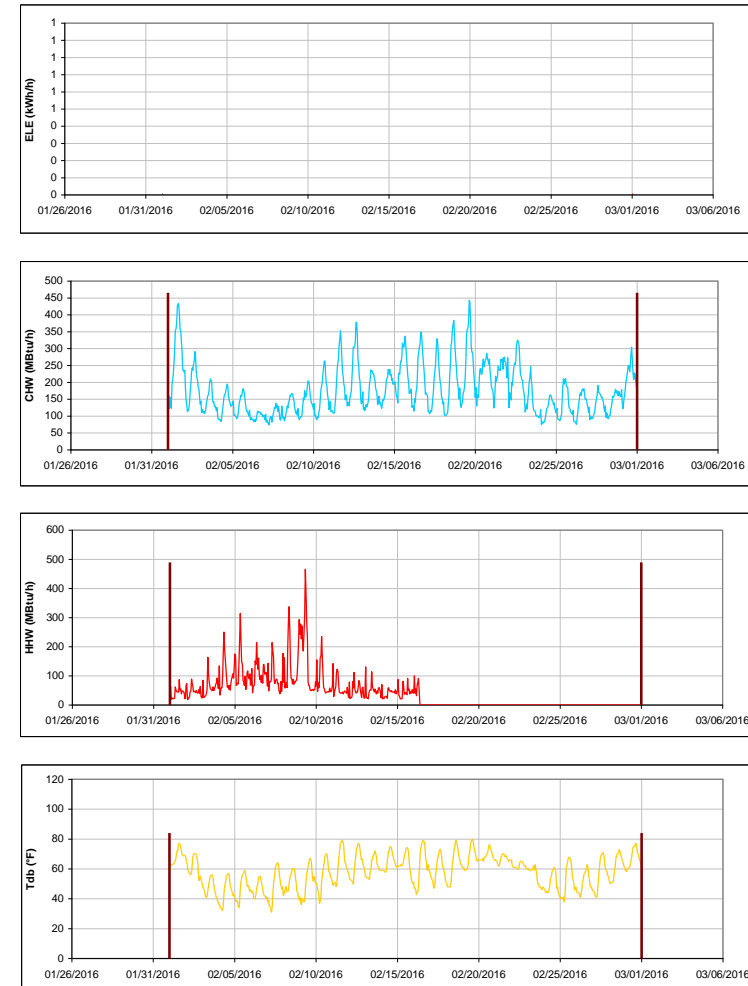


Figure III-60 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Teague Research Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

DPC Annex

TAMU / BLDG #: 0517

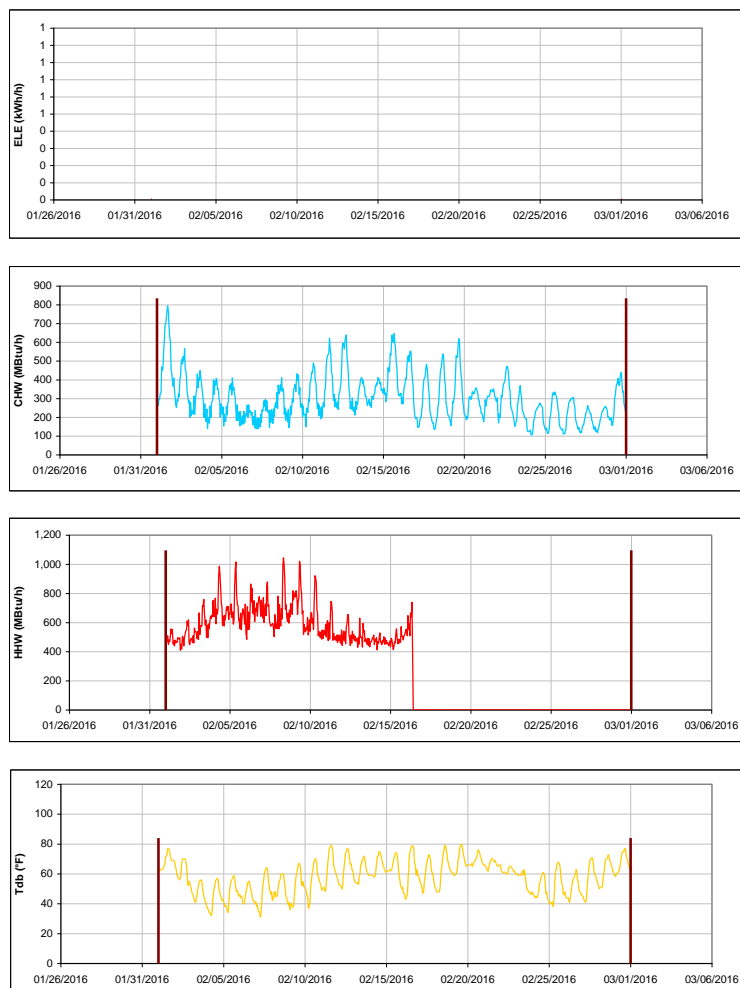


Figure III-61 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for DPC Annex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rudder Tower and Theatre Complex

TAMU / BLDG #: 0446

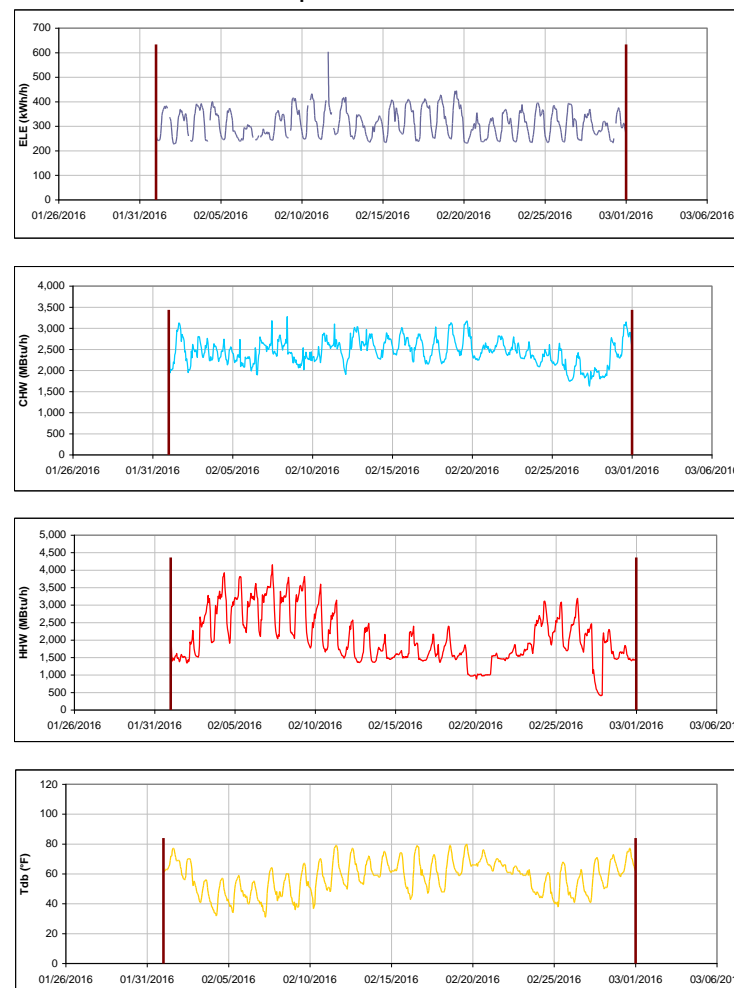


Figure III-62 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Tower and Theatre Complex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rudder Theatre Complex

TAMU / BLDG #: 0446-A

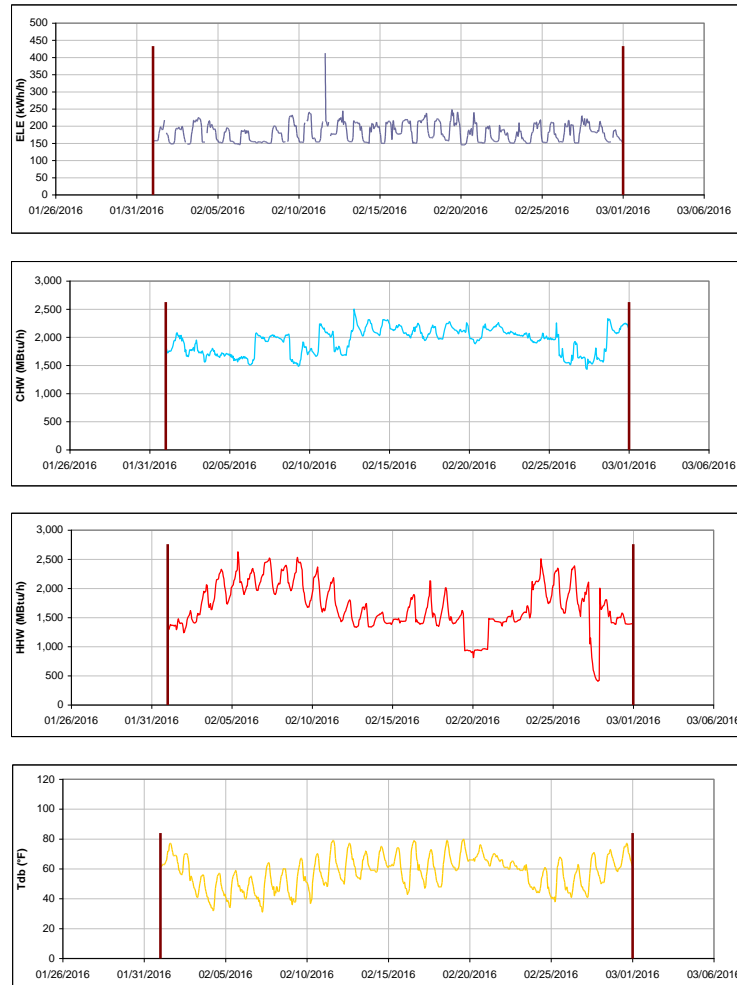


Figure III-63 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Theatre Complex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rudder Tower

TAMU / BLDG #: 0446-B

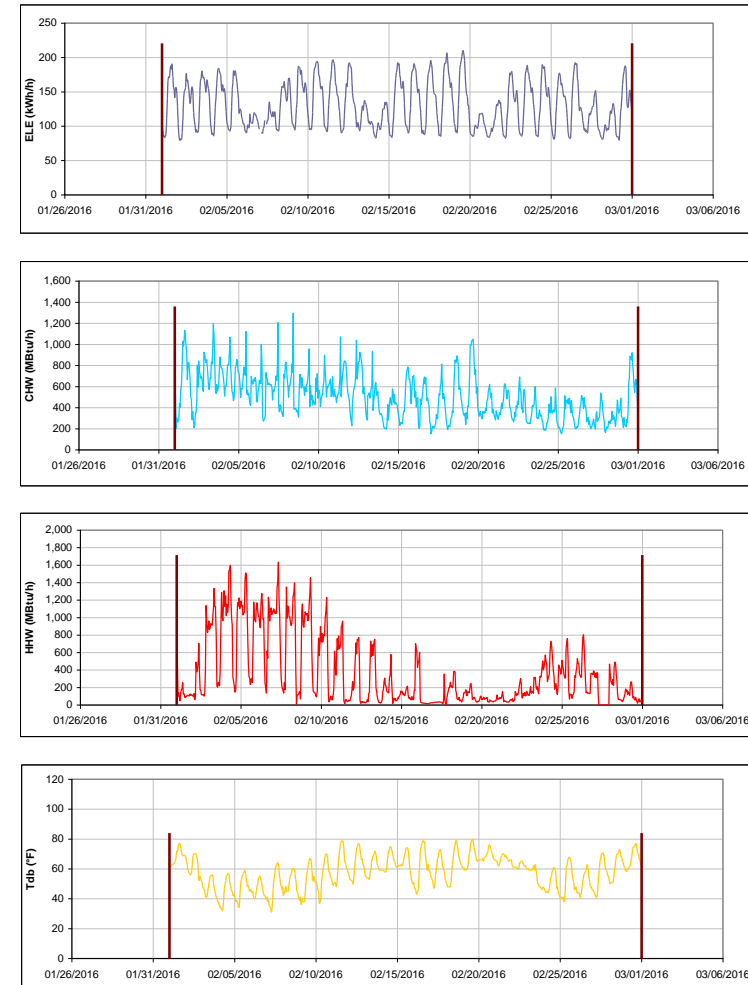


Figure III-64 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rudder Tower during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Adams Band Hall

TAMU / BLDG #: 0448

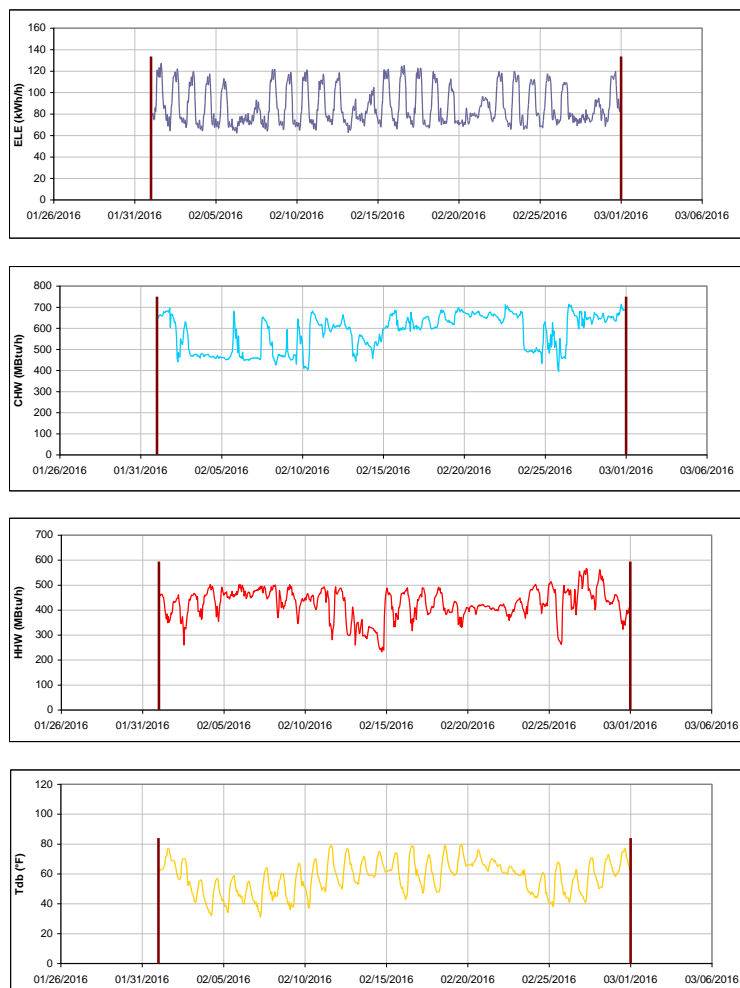


Figure III-65 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Adams Band Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biological Sciences Building - West

TAMU / BLDG #: 0449

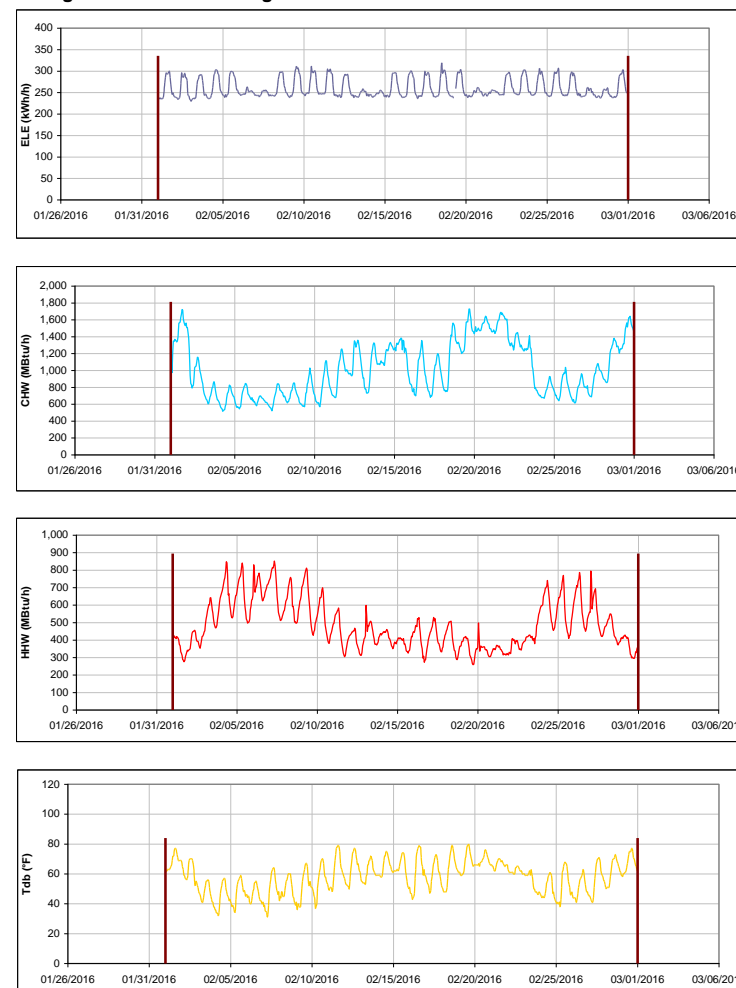


Figure III-66 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Sciences Building - West during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Duncan Dining Hall

TAMU / BLDG #: 0450

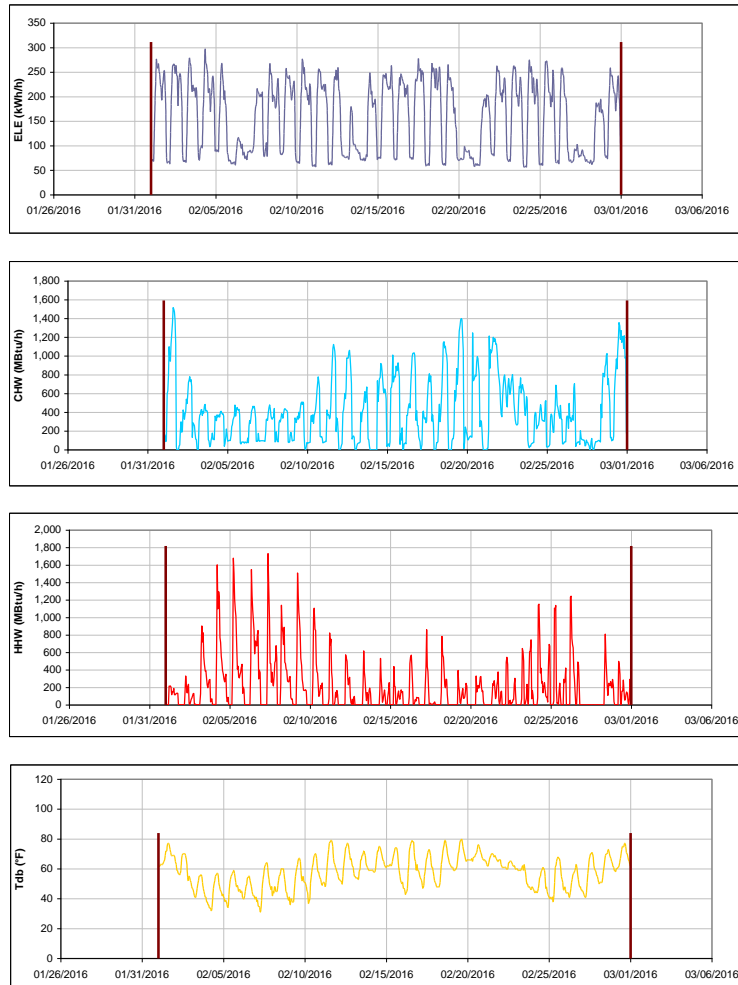


Figure III-67 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Duncan Dining Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

MSC

TAMU / BLDG #: 0454



Figure III-68 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for MSC during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Military Sciences Building

TAMU / BLDG #: 0456

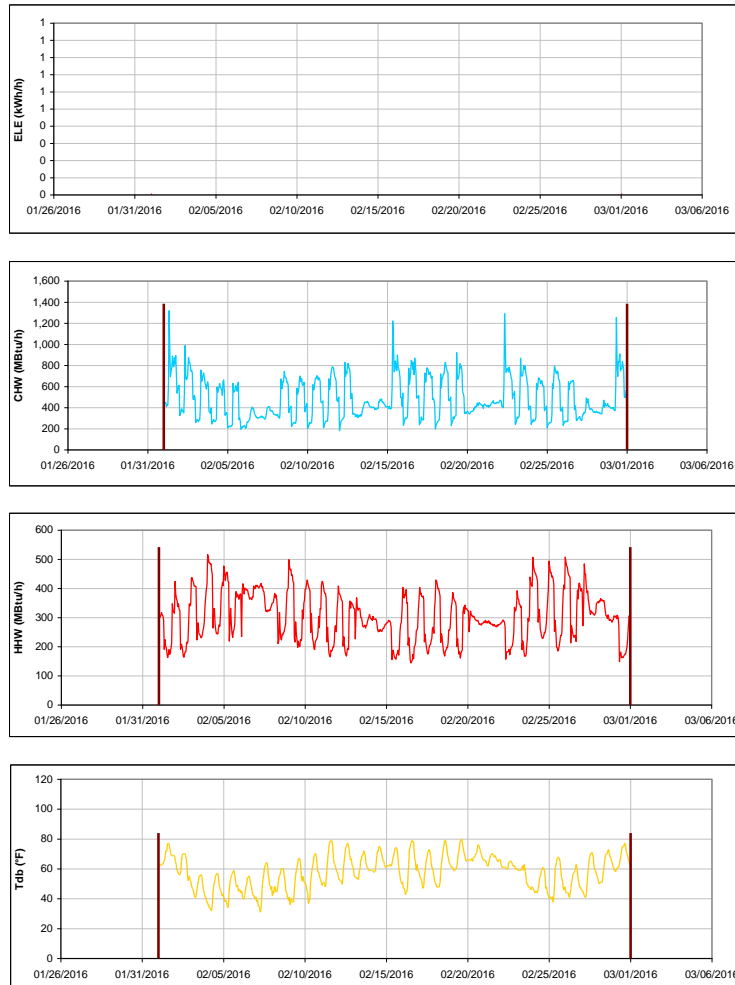


Figure III-69 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Military Sciences Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TAES Annex Building

TAMU / BLDG #: 0457

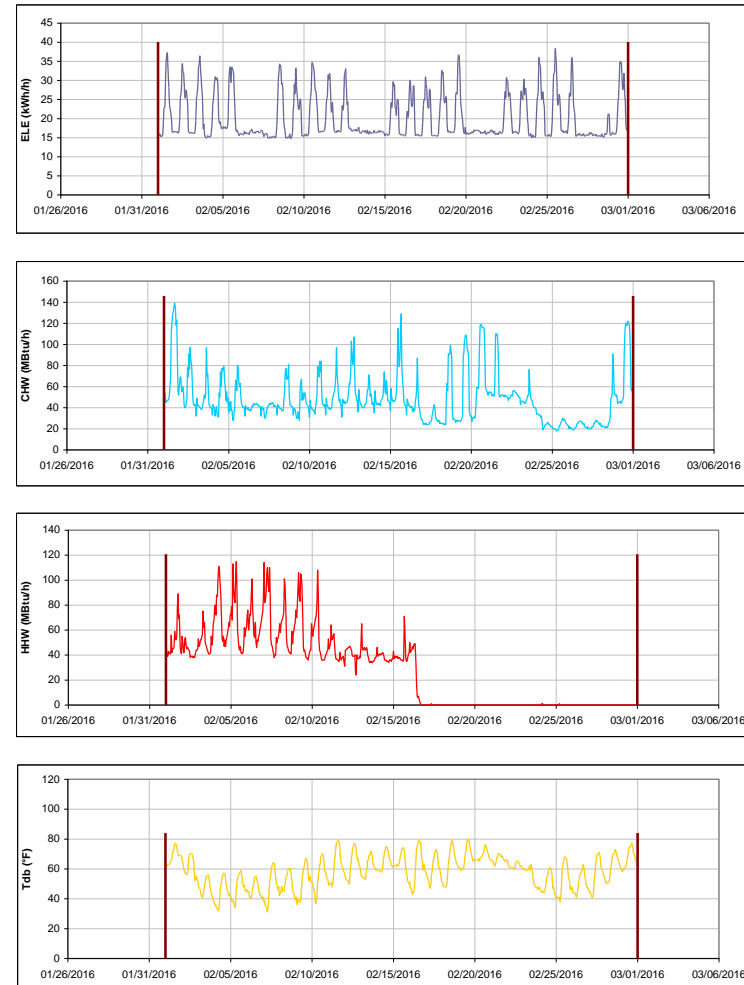


Figure III-70 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TAES Annex Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Coke Building

TAMU / BLDG #: 0461

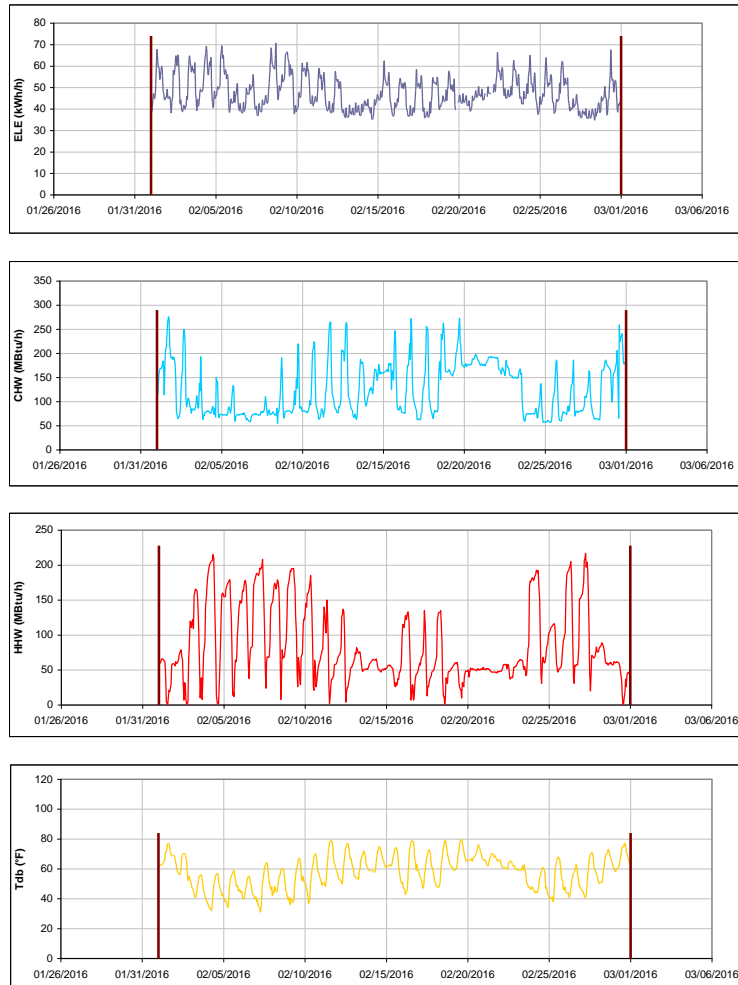


Figure III-71 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Coke Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Academic Building

TAMU / BLDG #: 0462

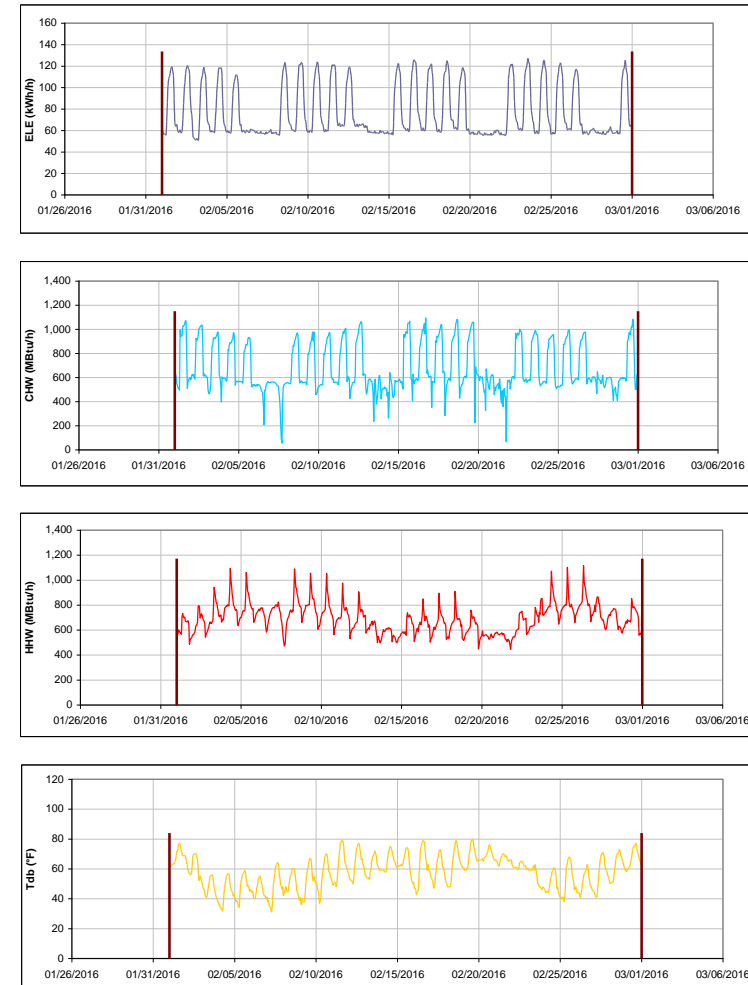


Figure III-72 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Academic Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Psychology Building

TAMU / BLDG #: 0463

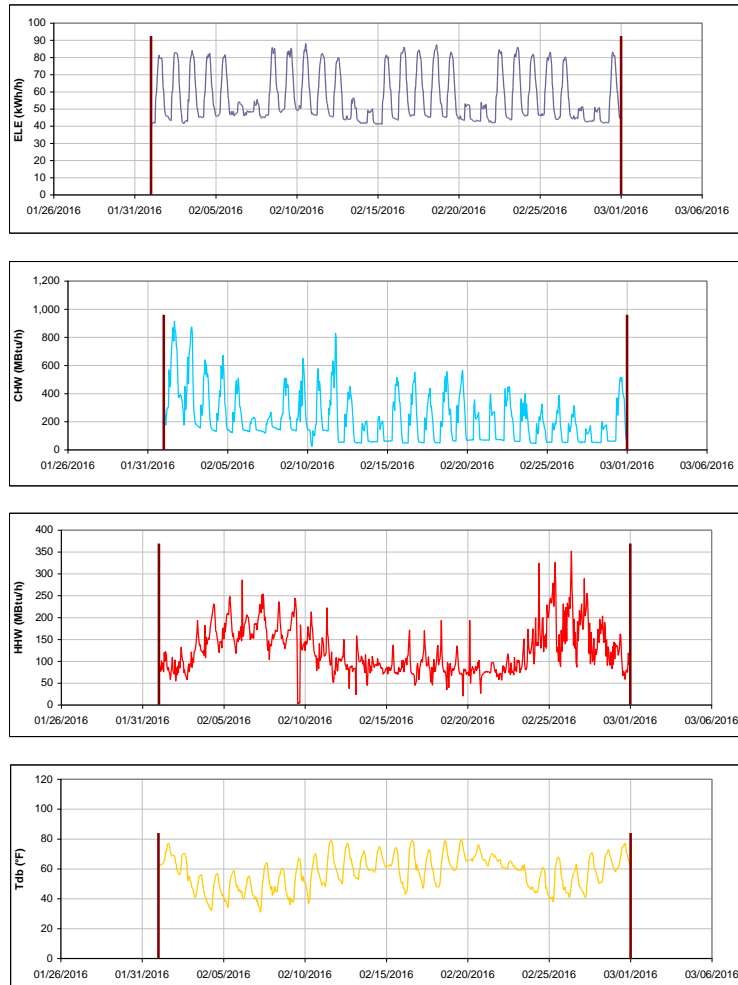


Figure III-73 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Psychology Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

State Chemist Building

TAMU / BLDG #: 0464

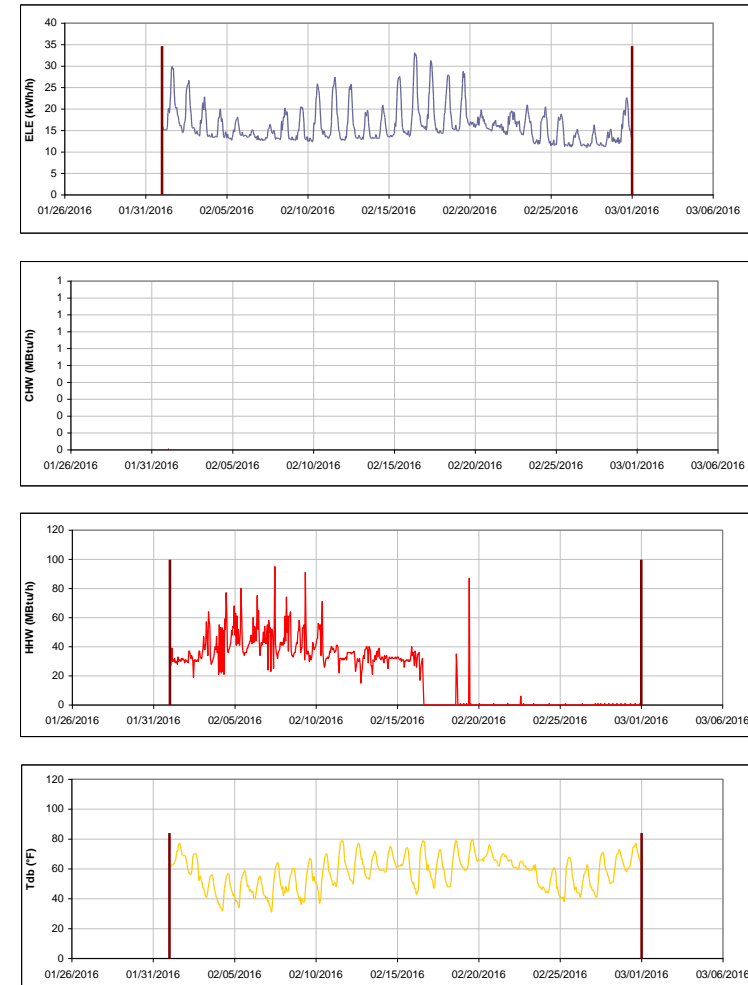


Figure III-74 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for State Chemist Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Butler Hall

TAMU / BLDG #: 0465

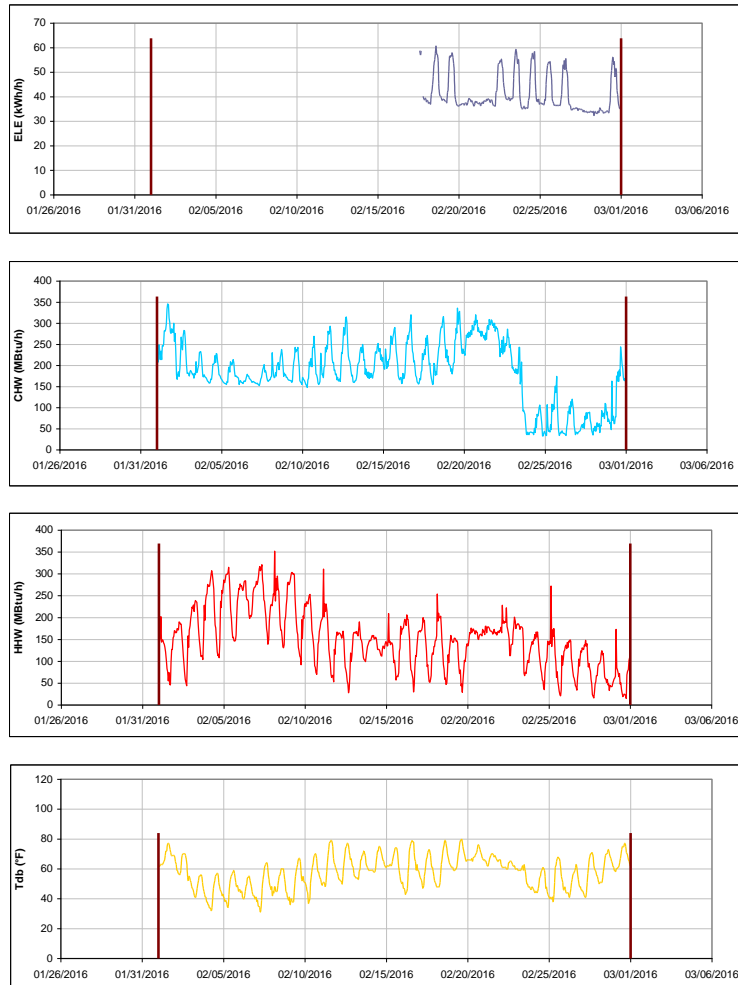


Figure III-75 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Butler Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biological Sciences Building - East

TAMU / BLDG #: 0467

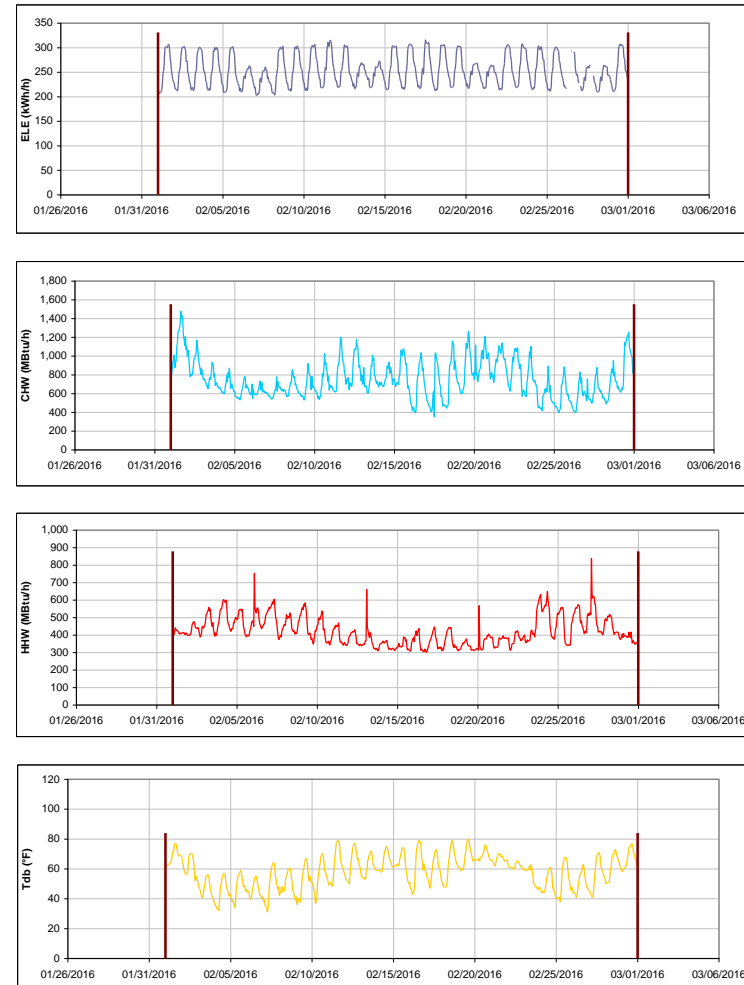


Figure III-76 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Sciences Building - East during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Evans Library

TAMU / BLDG #: 0468

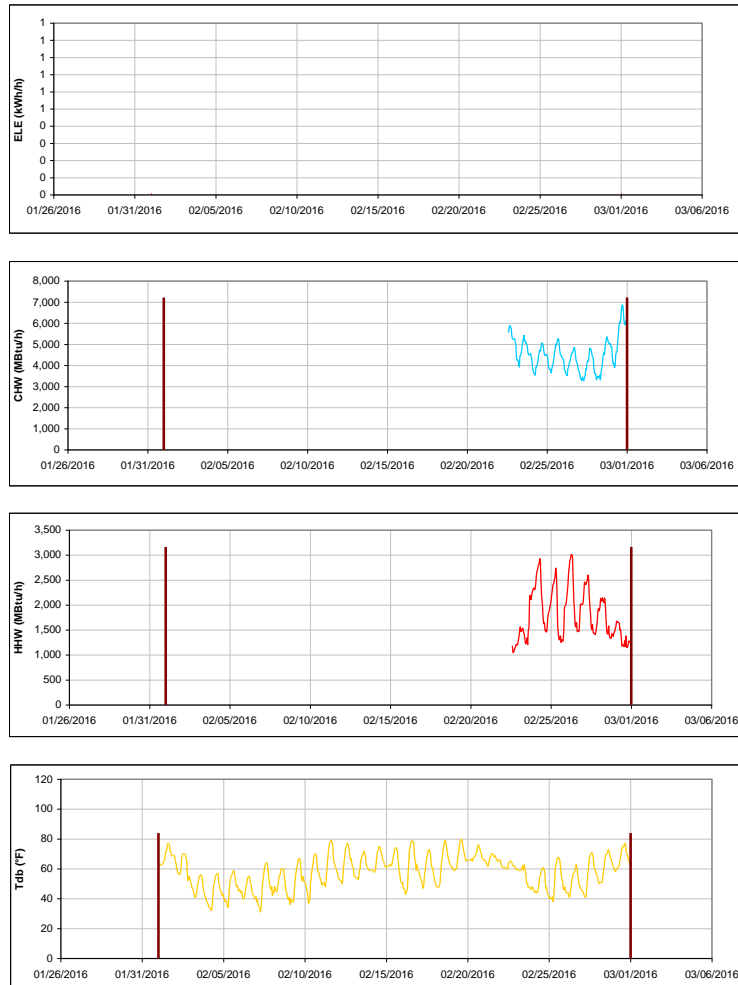


Figure III-77 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Evans Library during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Central Campus Parking Garage

TAMU / BLDG #: 0469



Figure III-78 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Central Campus Parking Garage during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Glasscock History Bldg

TAMU / BLDG #: 0470

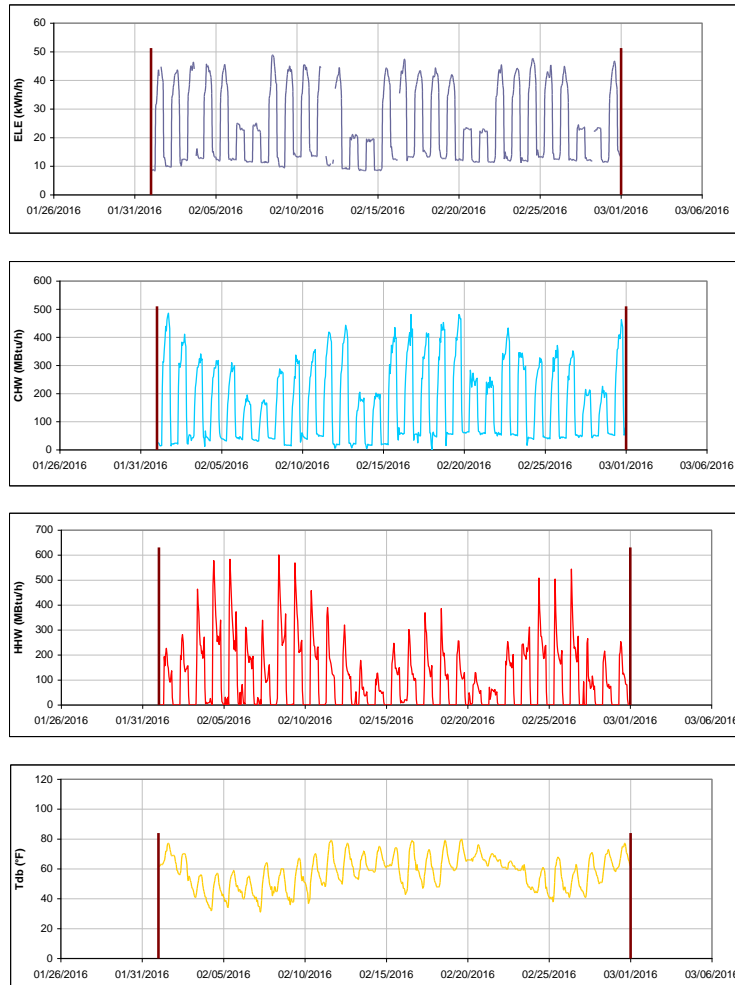


Figure III-79 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Glasscock History Bldg during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Pavilion

TAMU / BLDG #: 0471

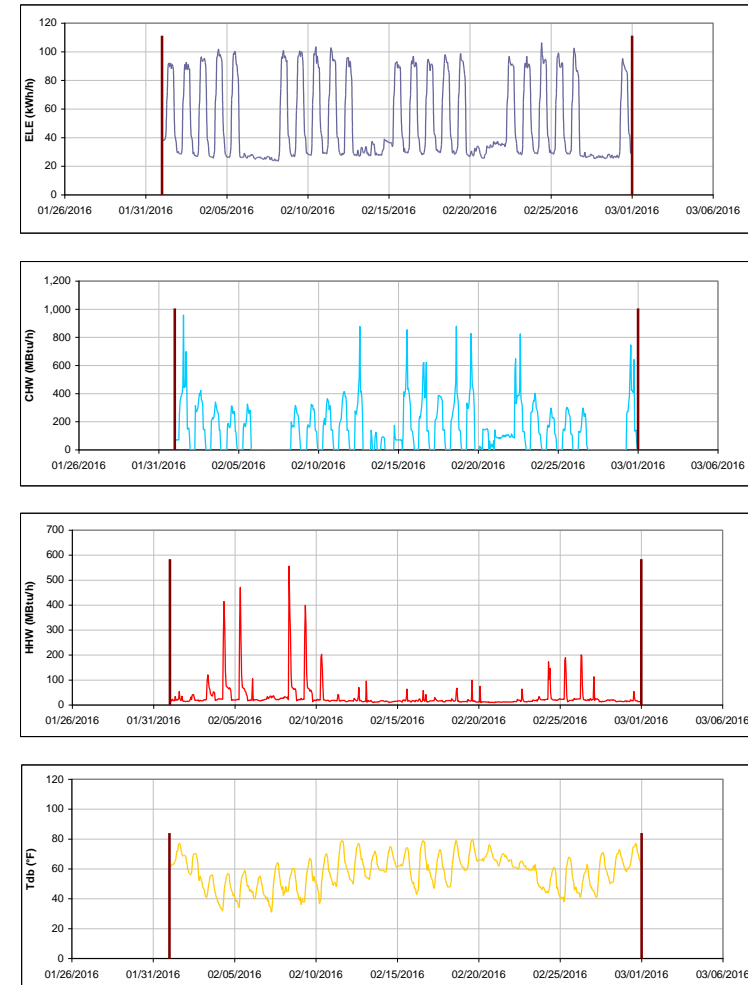


Figure III-80 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Pavilion during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Animal Industries

TAMU / BLDG #: 0472

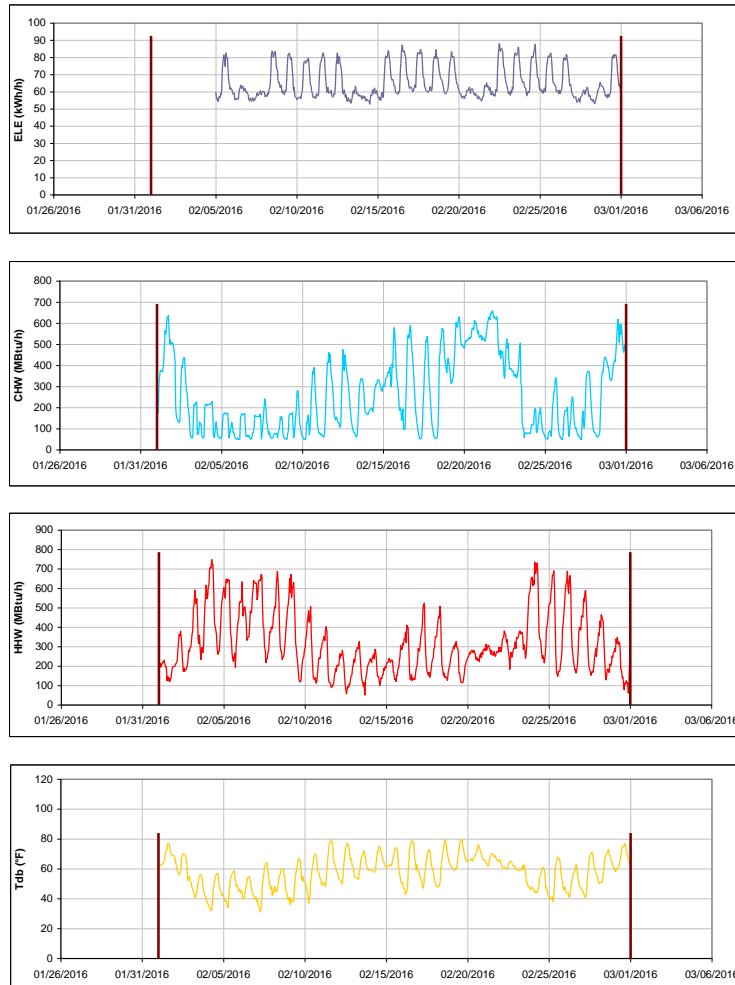


Figure III-81 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Animal Industries during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Williams Administration Building

TAMU / BLDG #: 0473

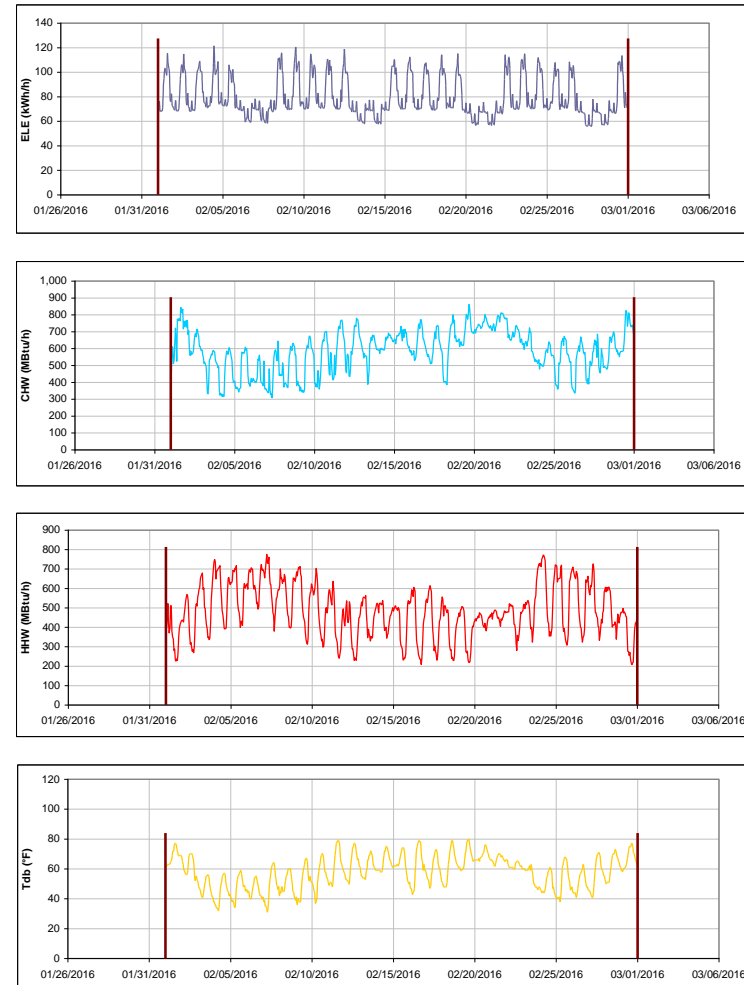


Figure III-82 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Williams Administration Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

YMCA Building

TAMU / BLDG #: 0474

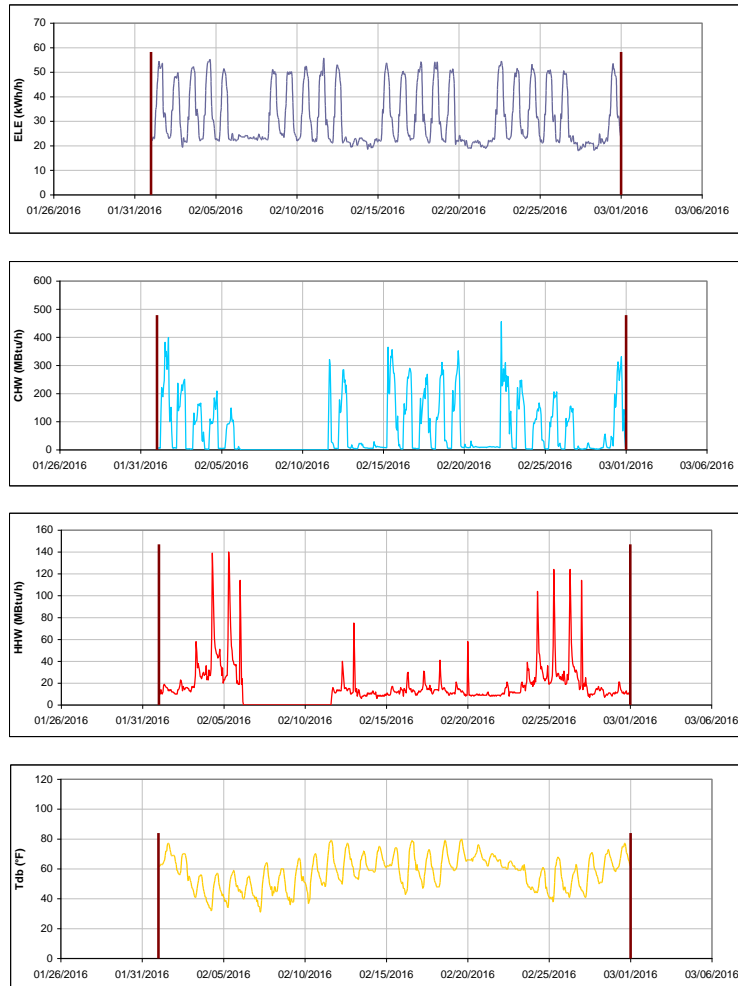


Figure III-83 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for YMCA Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Francis Hall

TAMU / BLDG #: 0476



Figure III-84 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Francis Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Anthropology Building

TAMU / BLDG #: 0477

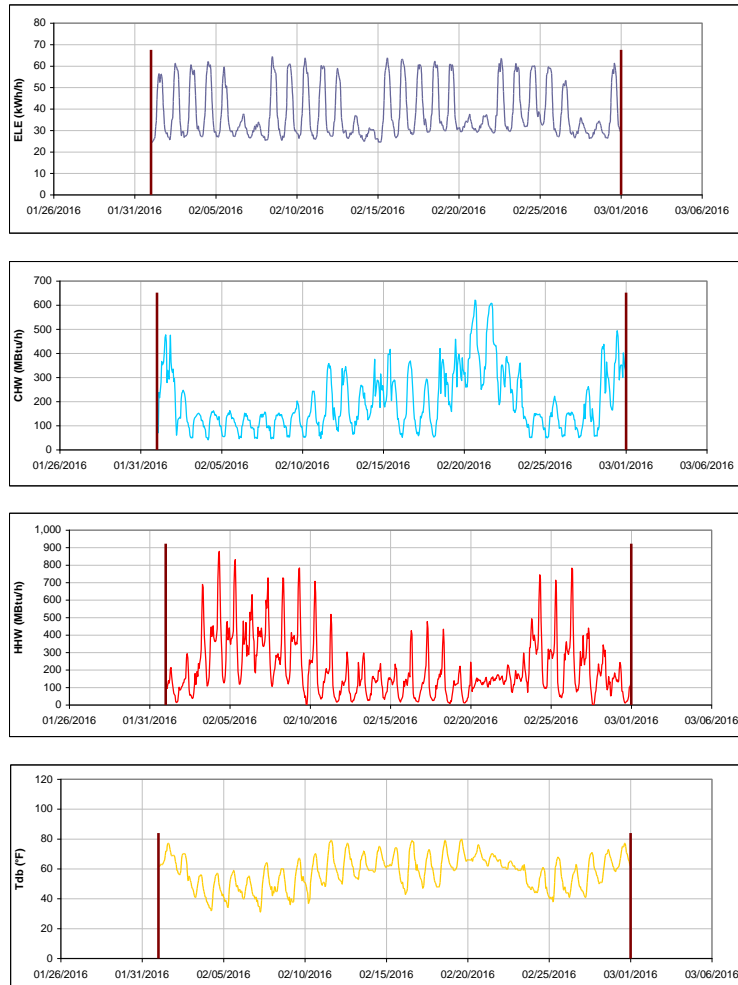


Figure III-85 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Anthropology Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Scoates Hall

TAMU / BLDG #: 0478

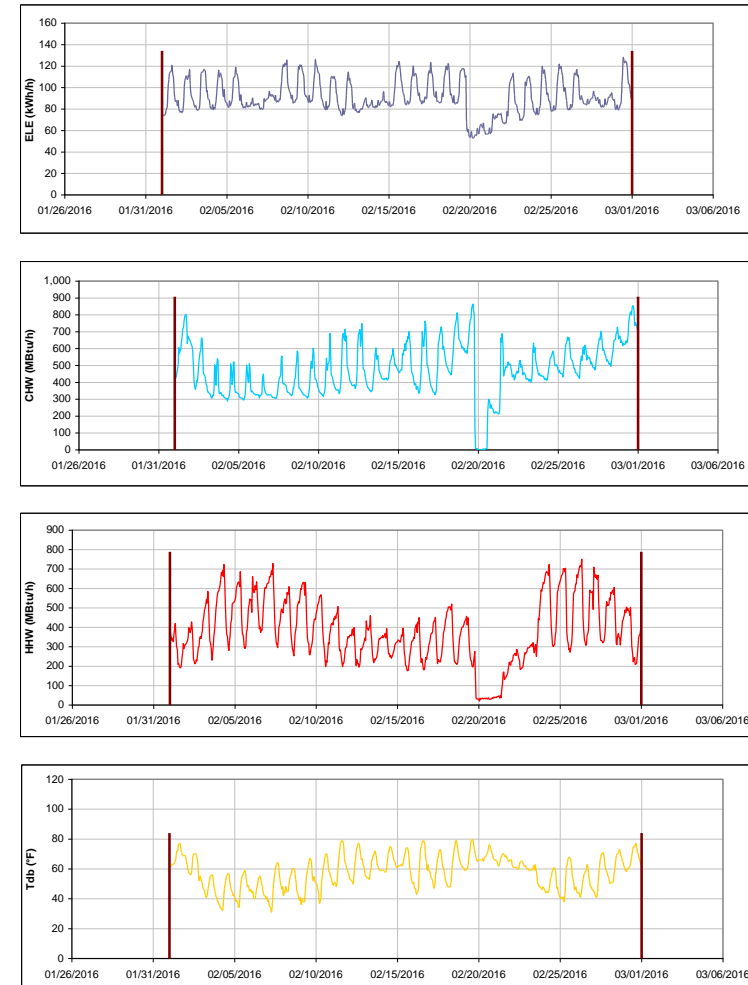


Figure III-86 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Scoates Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Bolton Hall

TAMU / BLDG #: 0480

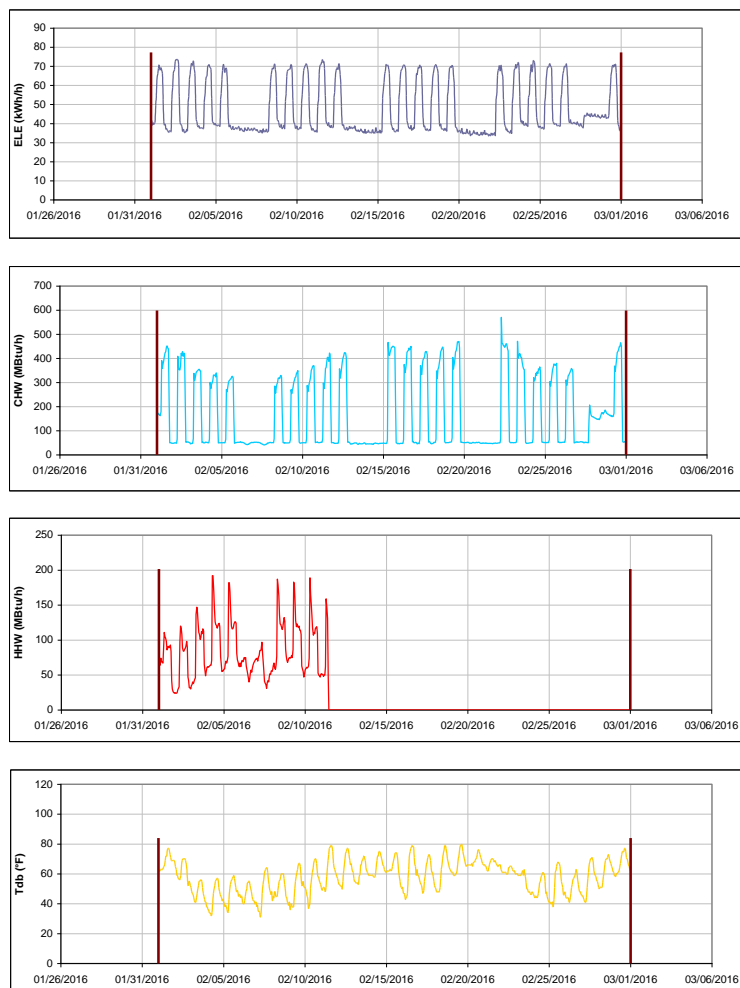


Figure III-87 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Bolton Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Heaton Hall

TAMU / BLDG #: 0481

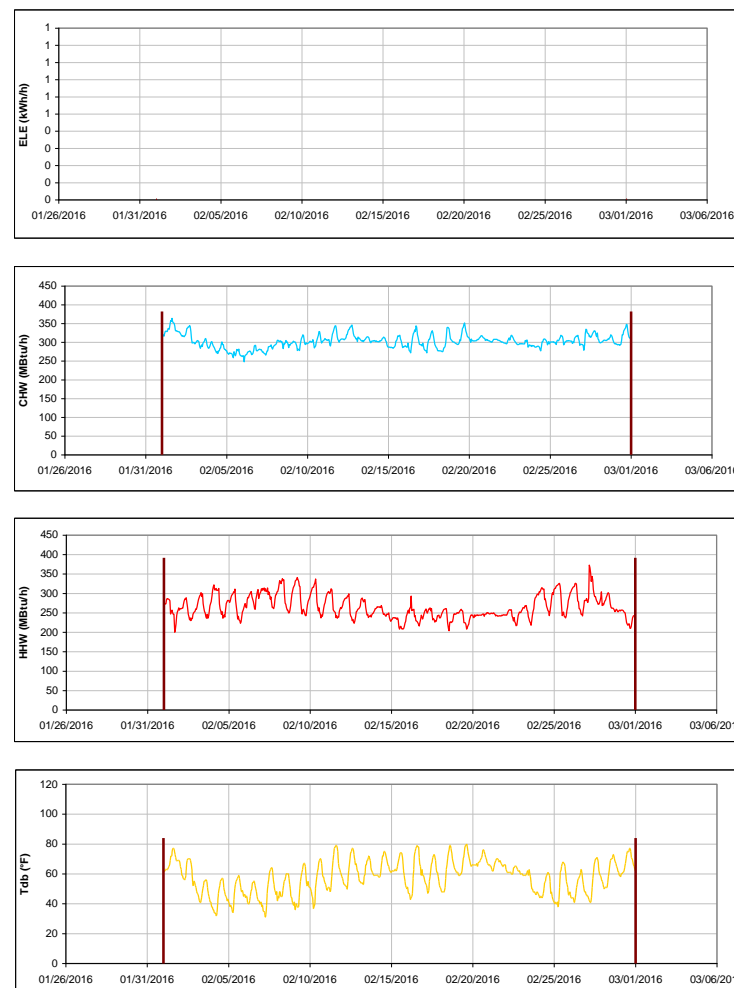


Figure III-88 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heaton Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Fermier Hall

TAMU / BLDG #: 0482

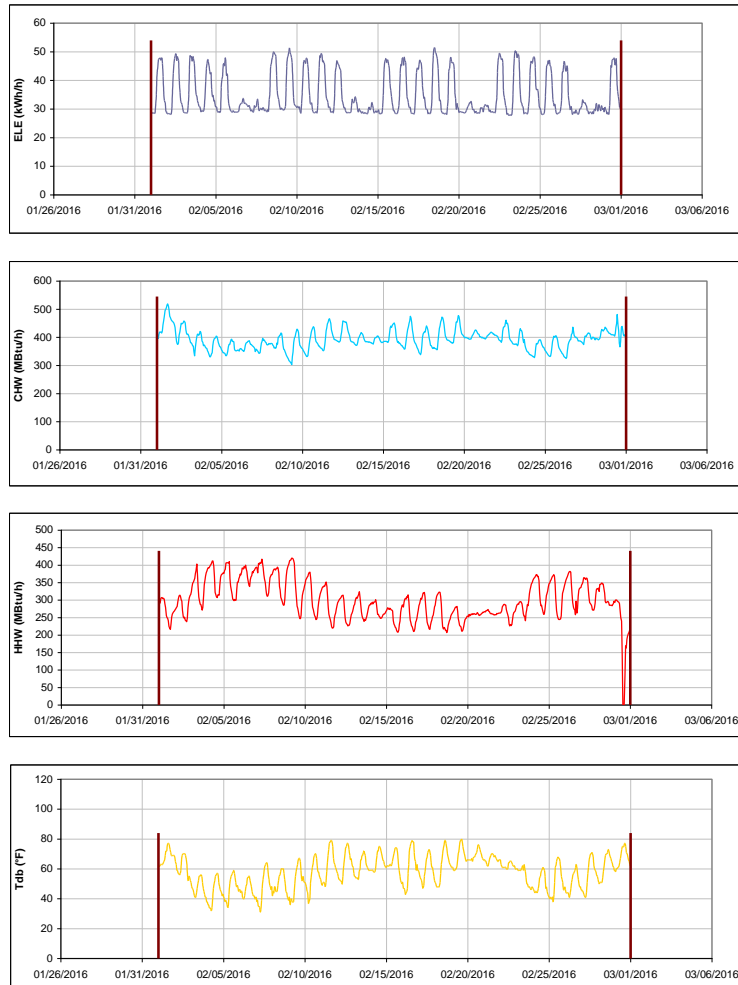


Figure III-89 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Fermier Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Thompson Hall

TAMU / BLDG #: 0483

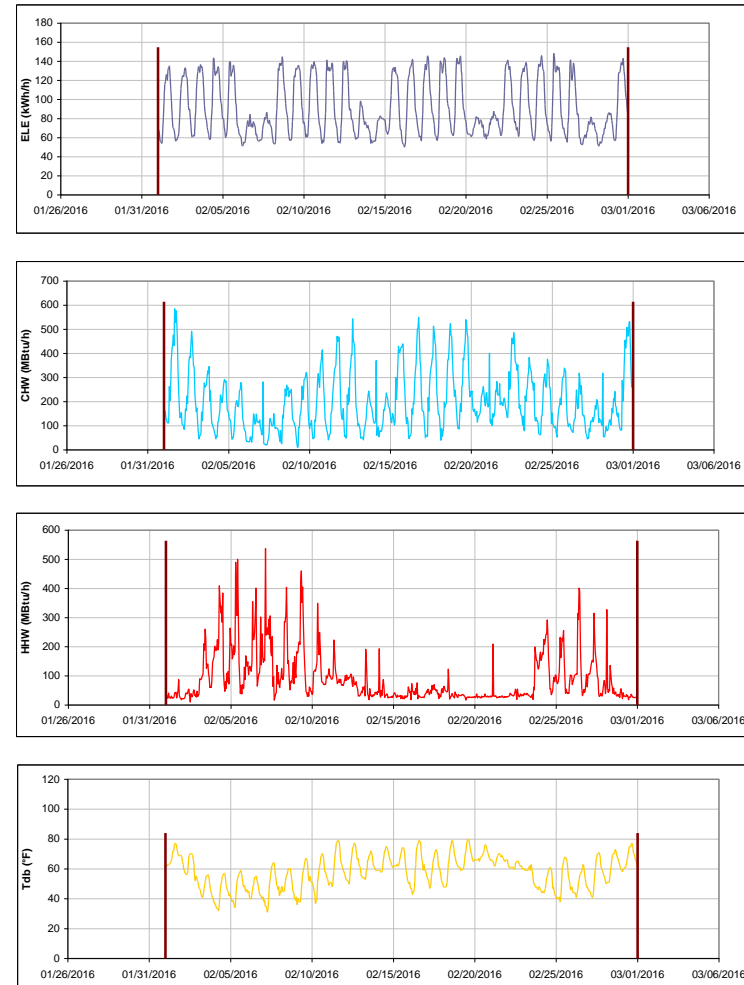


Figure III-90 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Thompson Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Chemistry Building

TAMU / BLDG #: 0484

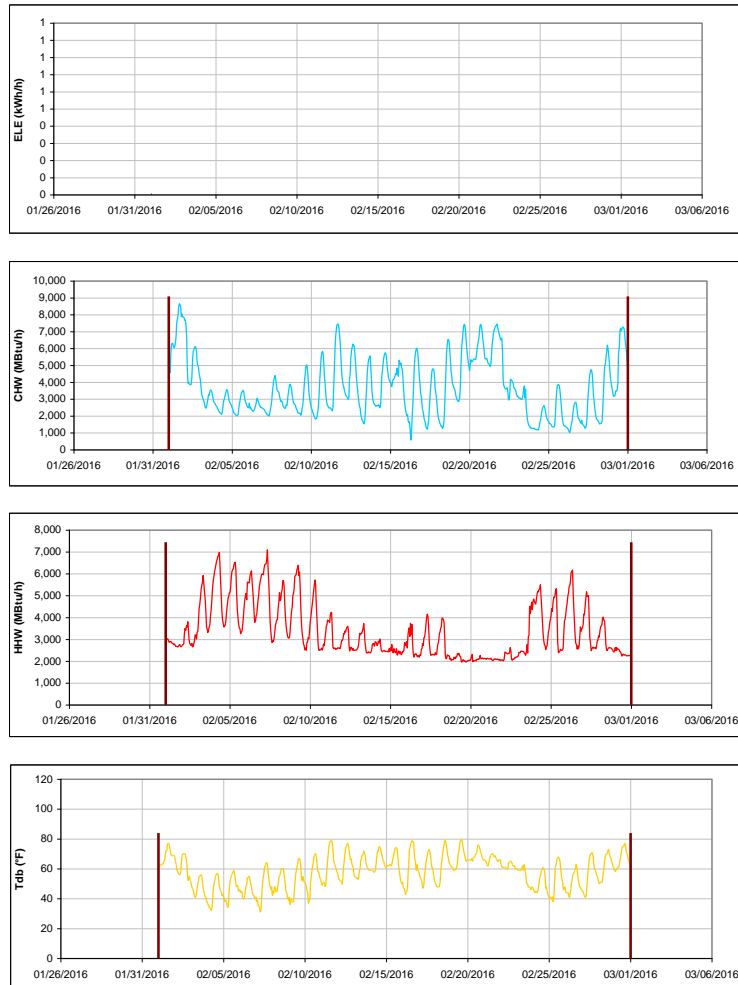


Figure III-91 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Chemistry Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Halbouty Geosciences Building

TAMU / BLDG #: 0490

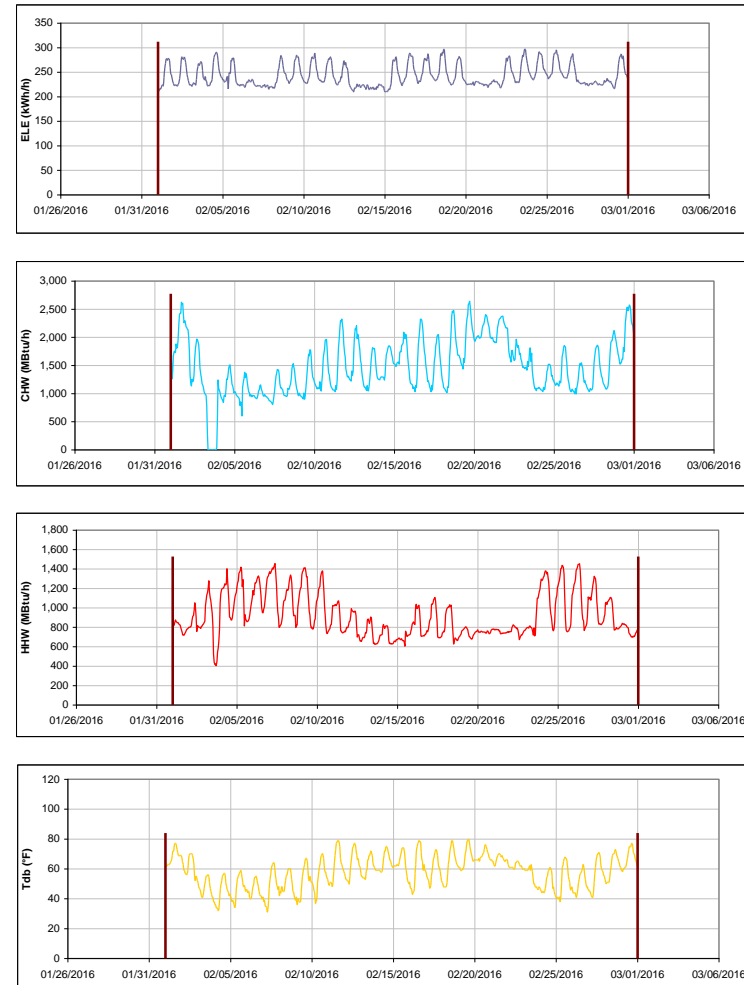


Figure III-92 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Halbouty Geosciences Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Civil Engineering Building

TAMU / BLDG #: 0492

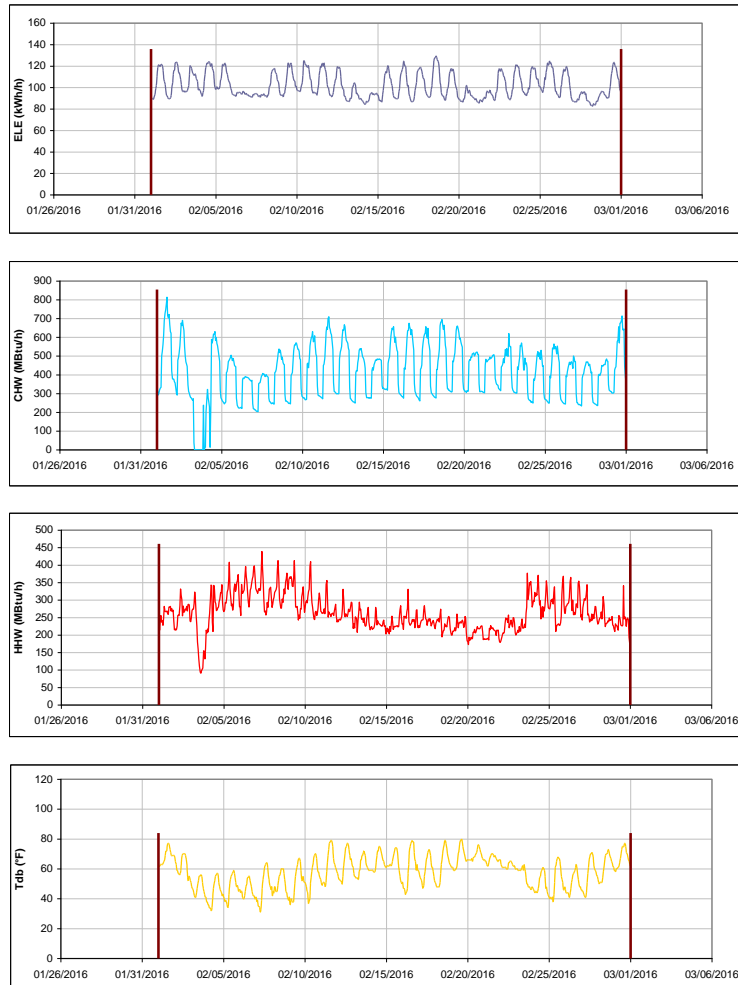


Figure III-93 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Civil Engineering Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Sbisa Dining Hall

TAMU / BLDG #: 0495



Figure III-94 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Sbisa Dining Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utilities & Energy Services Central Office

TAMU / BLDG #: 0496

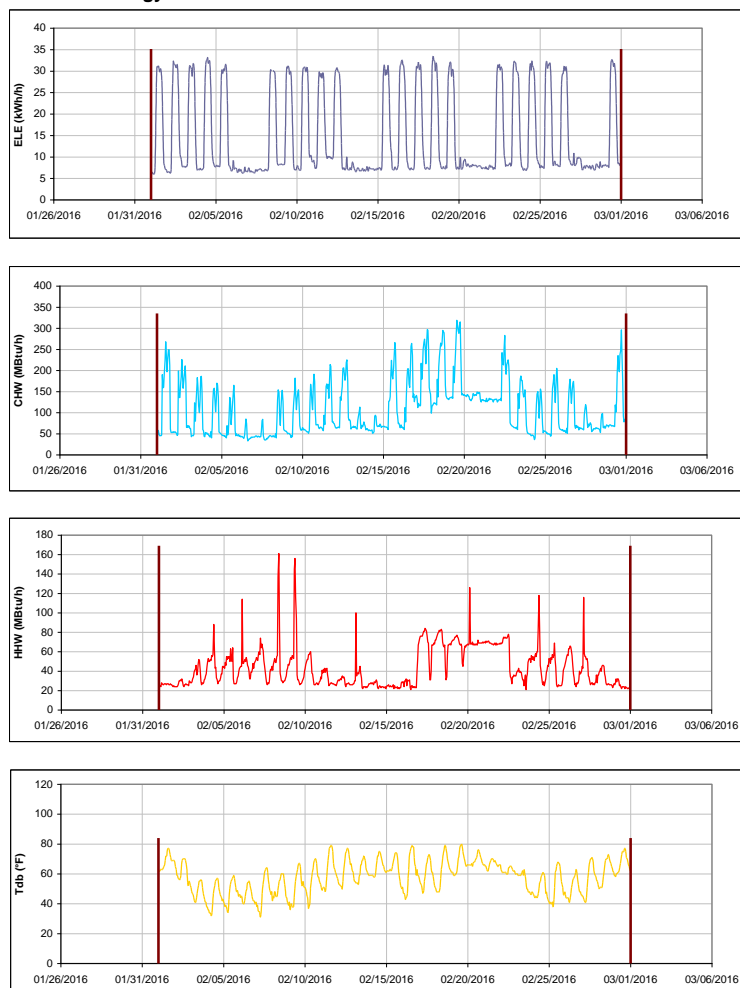


Figure III-95 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities & Energy Services Central Office during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Concrete Materials Laboratory

TAMU / BLDG #: 0501

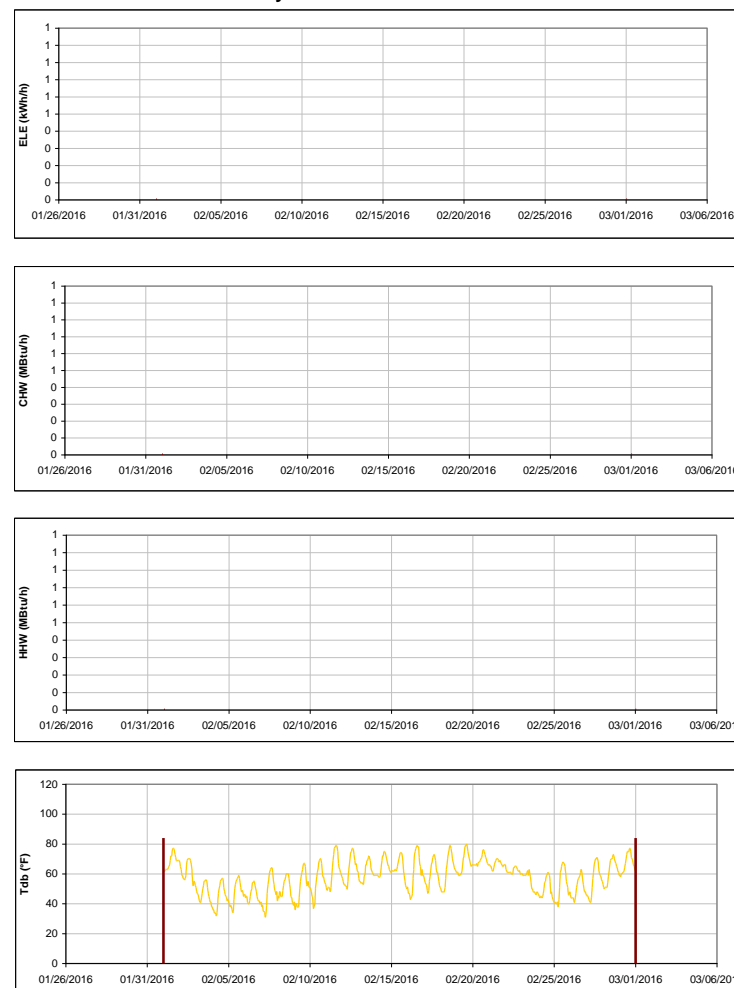


Figure III-96 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Concrete Materials Laboratory during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Nagle Hall

TAMU / BLDG #: 0506

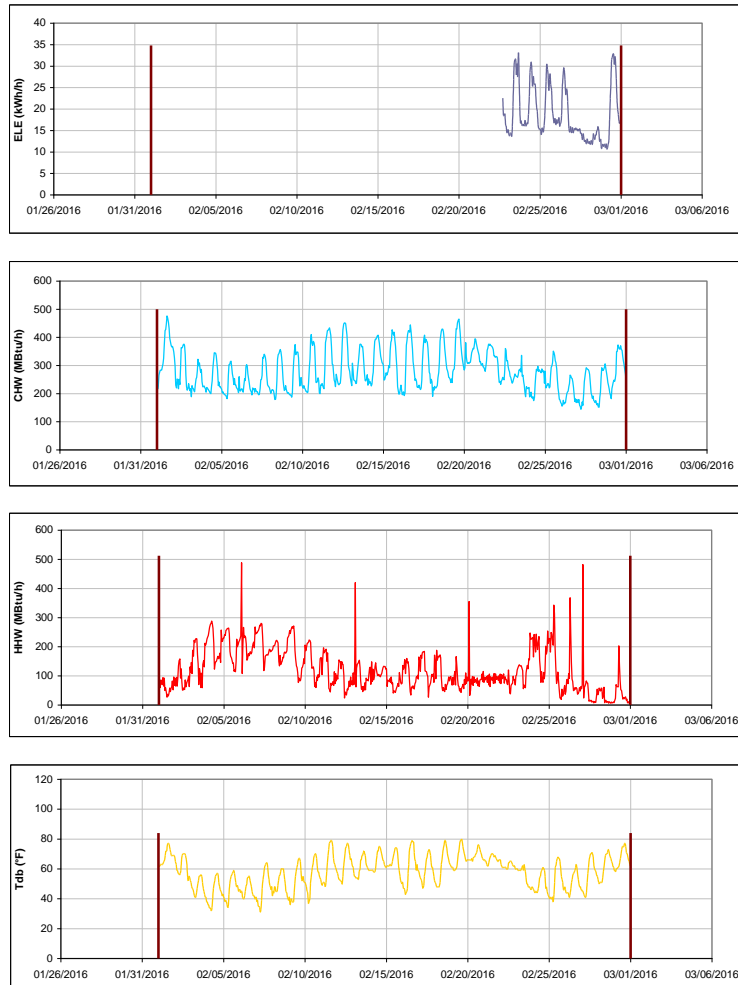


Figure III-97 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Nagle Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Medical Science Building

TAMU / BLDG #: 0507

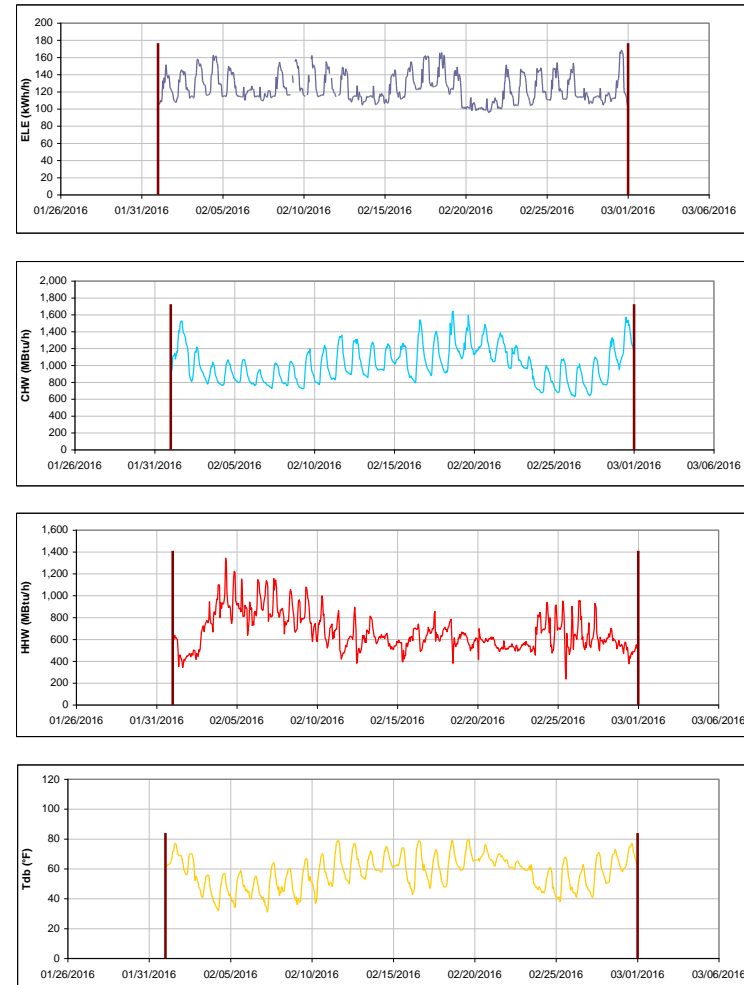


Figure III-98 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medical Science Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Teaching Hospital and Veterinary Medicine Administration / BLDG #: 3508-1026

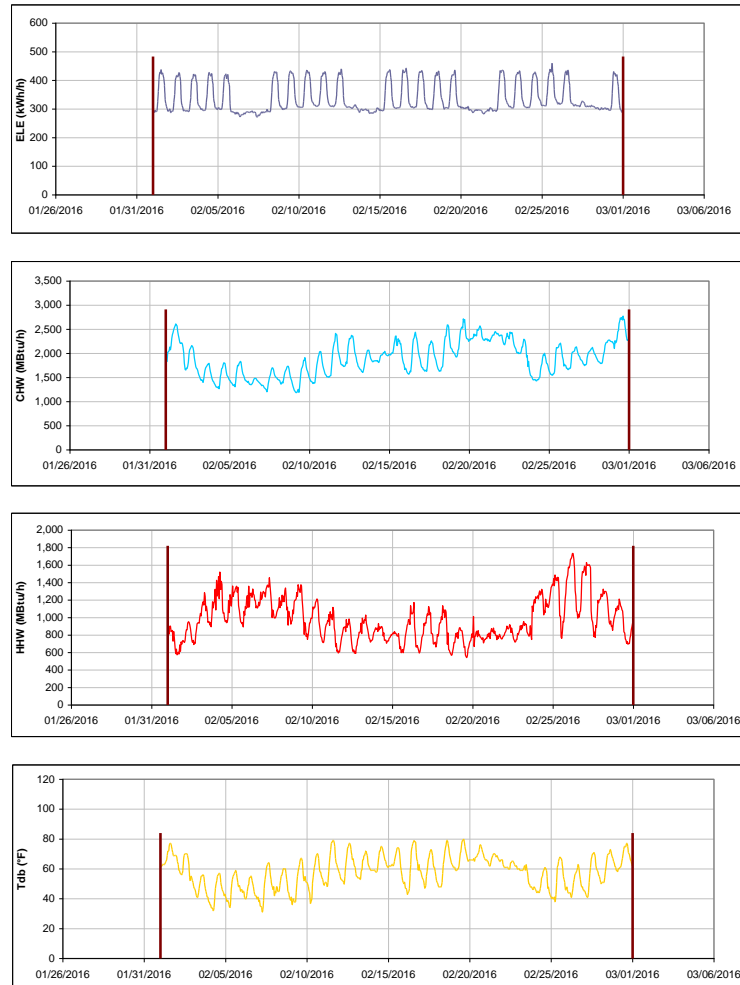


Figure III-99 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Teaching Hospital and Veterinary Medicine Administration during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station

Veterinary Medicine Administration

TAMU / BLDG #: 1026

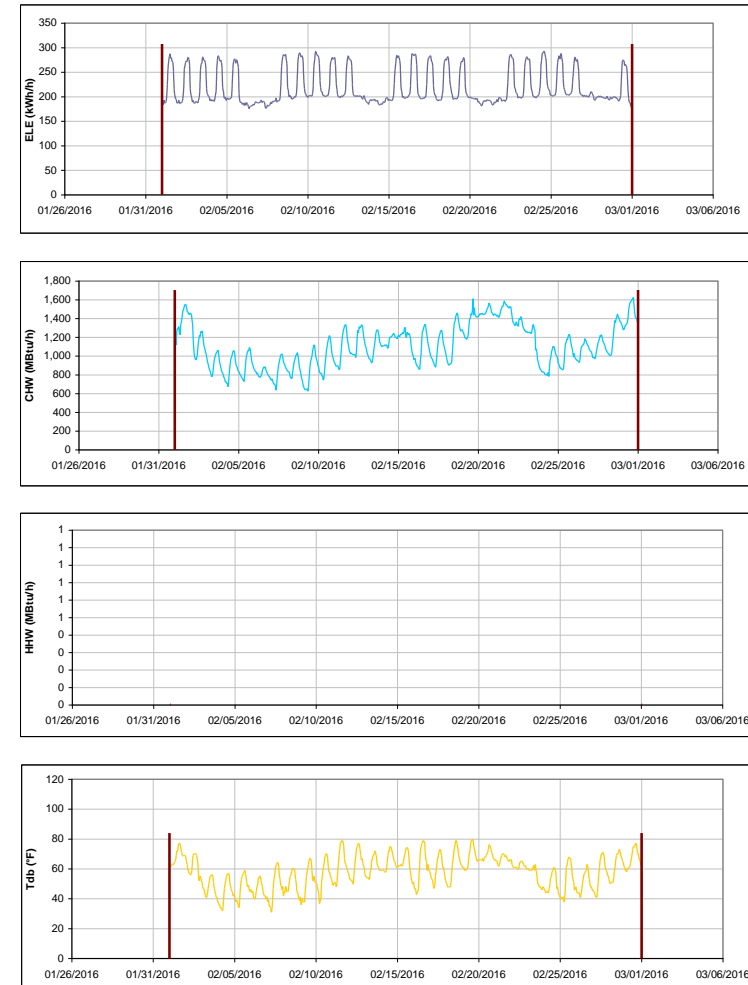


Figure III-100 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Medicine Administration during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Heep Laboratory Building

TAMU / BLDG #: 0511

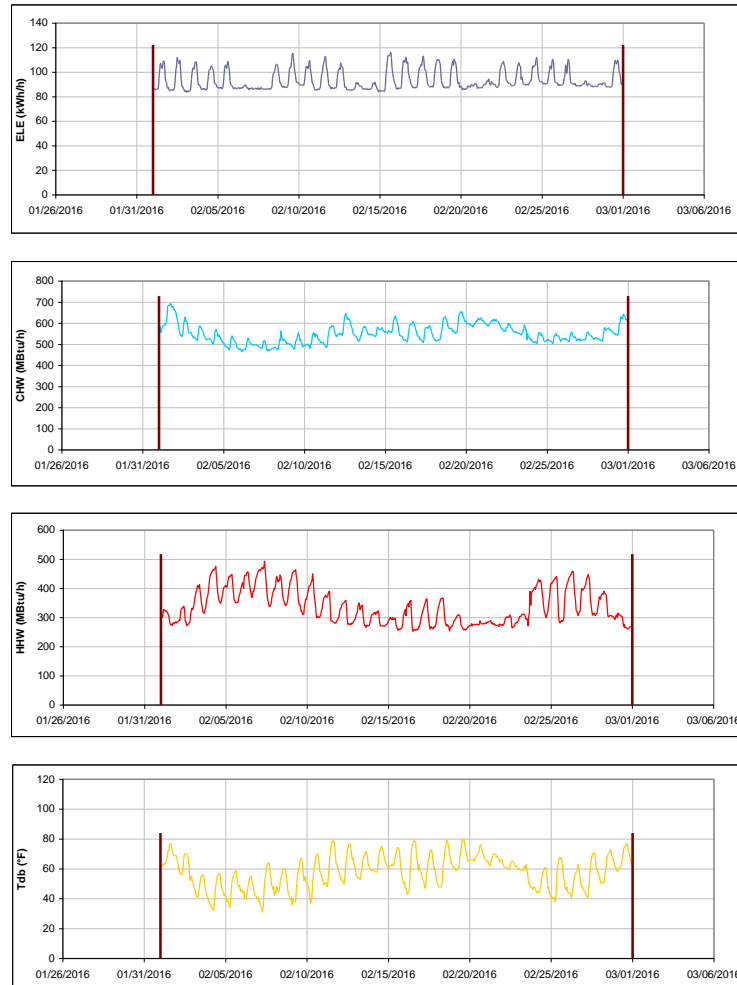


Figure III-101 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heep Laboratory Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

All Faiths Chapel

TAMU / BLDG #: 0512

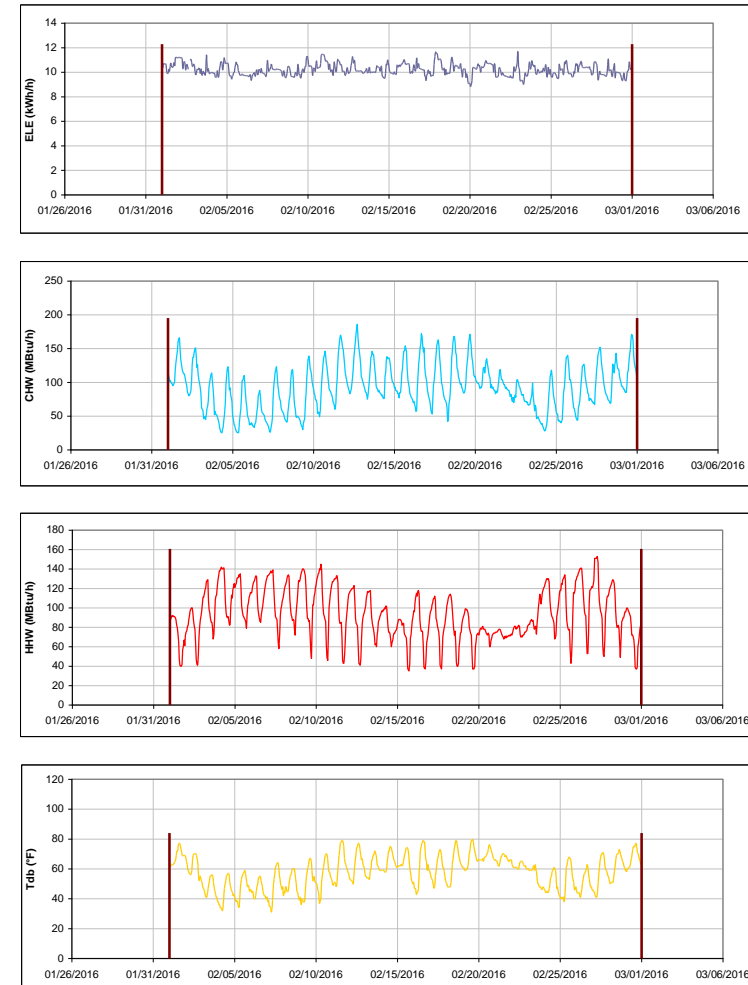


Figure III-102 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for All Faiths Chapel during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Doherty Building

TAMU / BLDG #: 0513

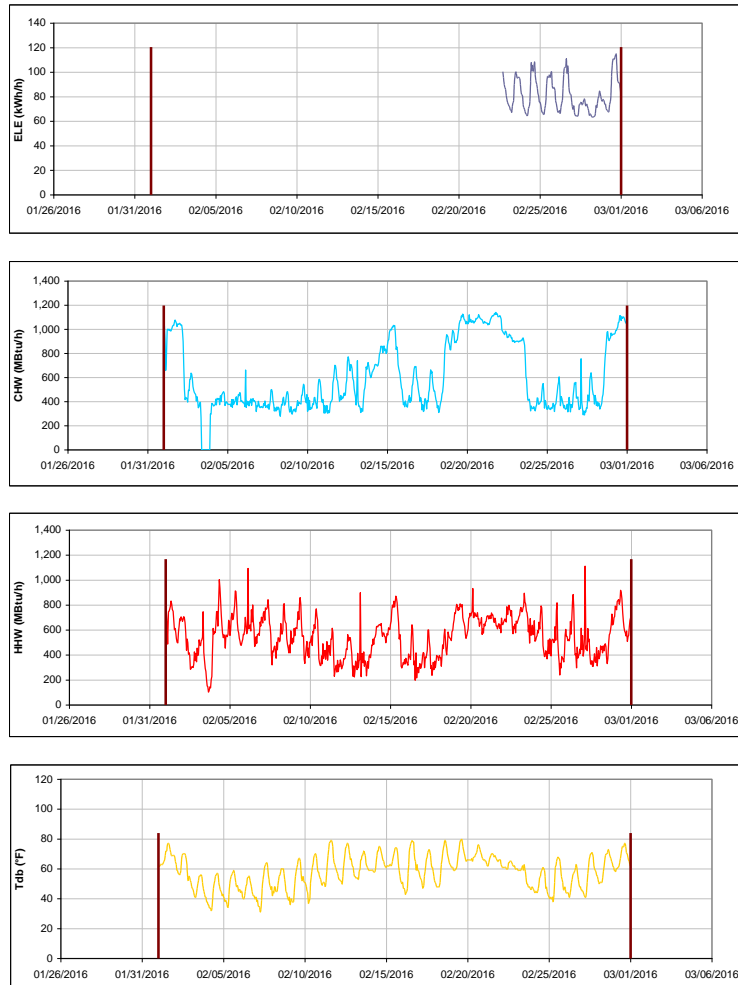


Figure III-103 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Doherty Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Munnerlyn Astronomy & Space Sciences Engineering TAMU / BLDG #: 0514

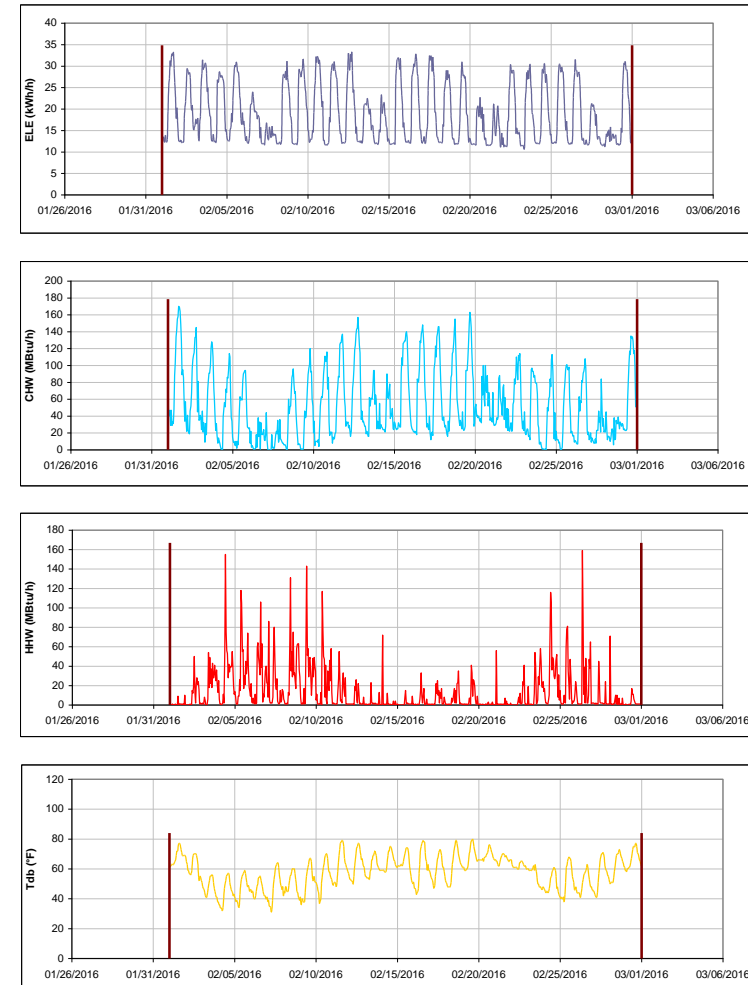


Figure III-104 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Munnerlyn Astronomy & Space Sciences Engineering during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Computing Services Center

TAMU / BLDG #: 0516

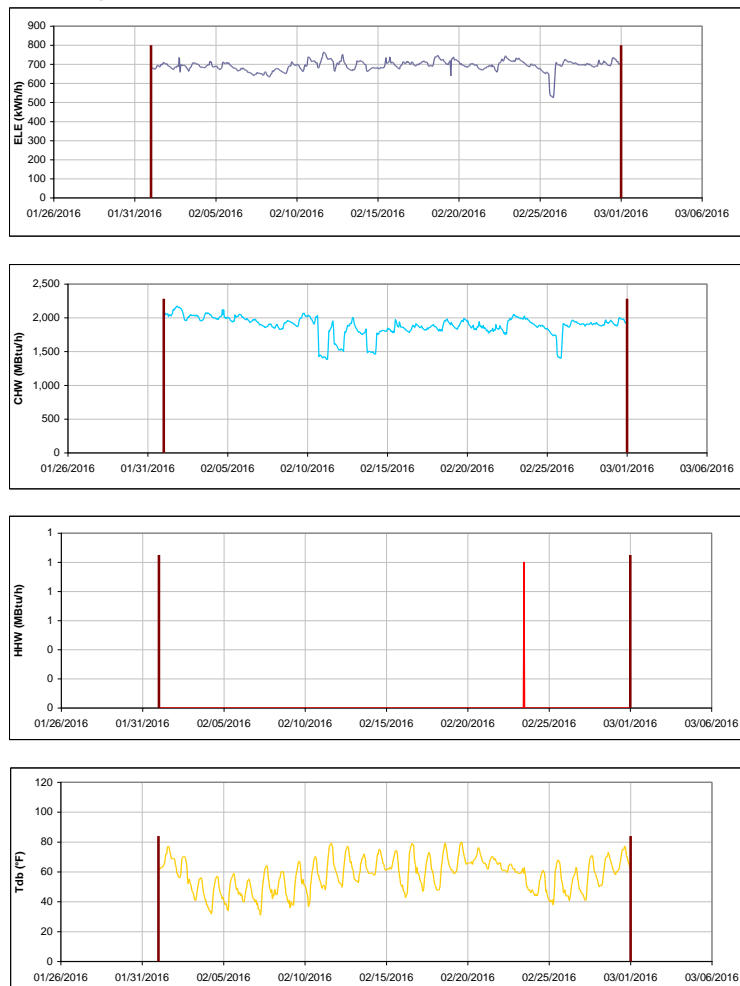


Figure III-105 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Computing Services Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Beutel Health Center

TAMU / BLDG #: 0520

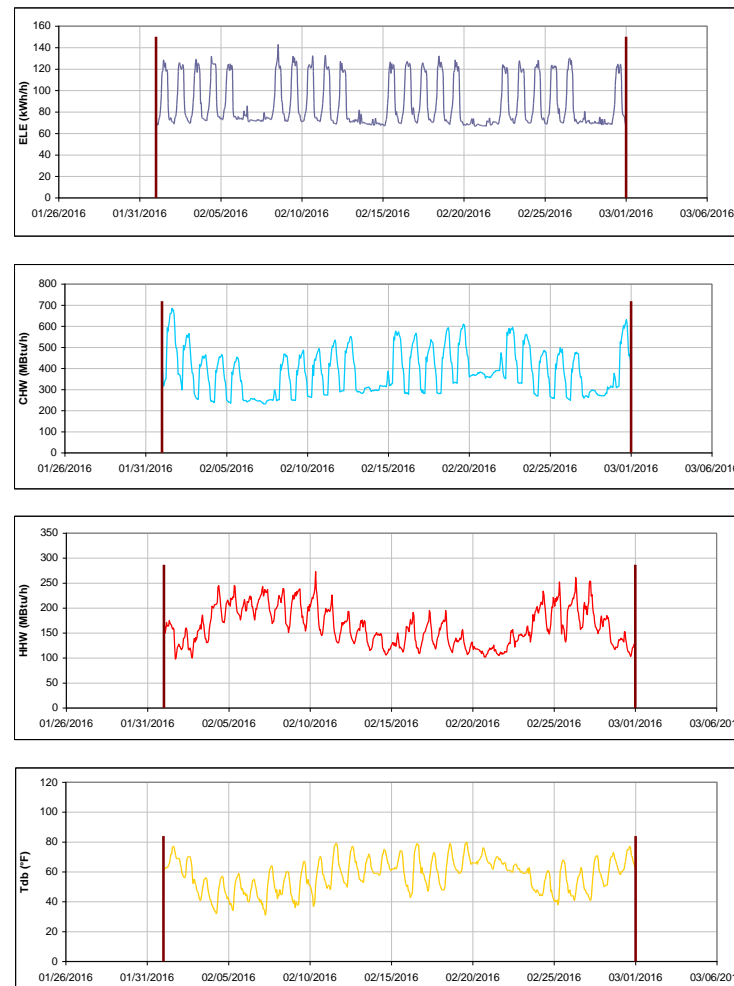


Figure III-106 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Beutel Health Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Heldenfels Hall

TAMU / BLDG #: 0521

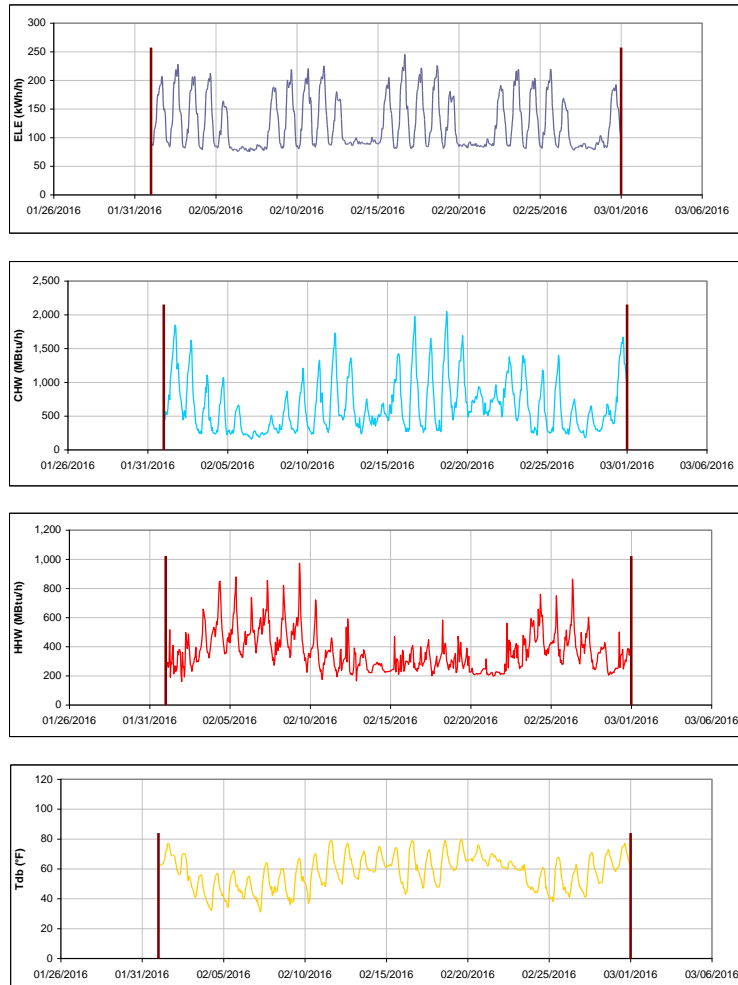


Figure III-107 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heldenfels Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Blocker building

TAMU / BLDG #: 0524

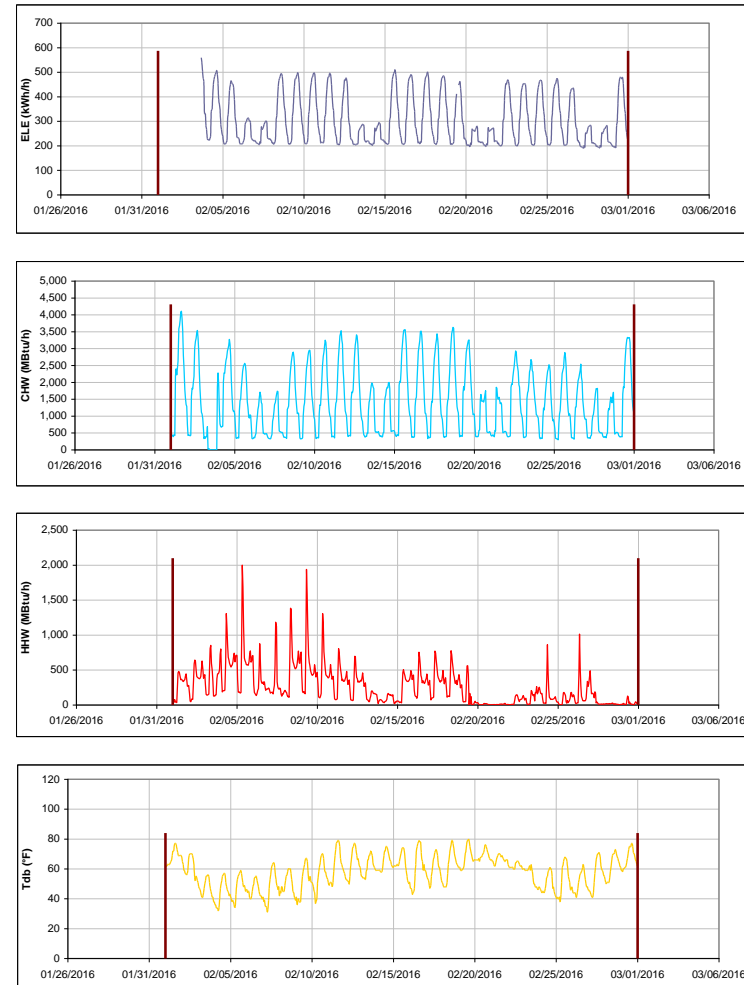


Figure III-108 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Blocker building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Clements Residence Hall

TAMU / BLDG #: 0548



Figure III-109 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Clements Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Haas Residence Hall

TAMU / BLDG #: 0549

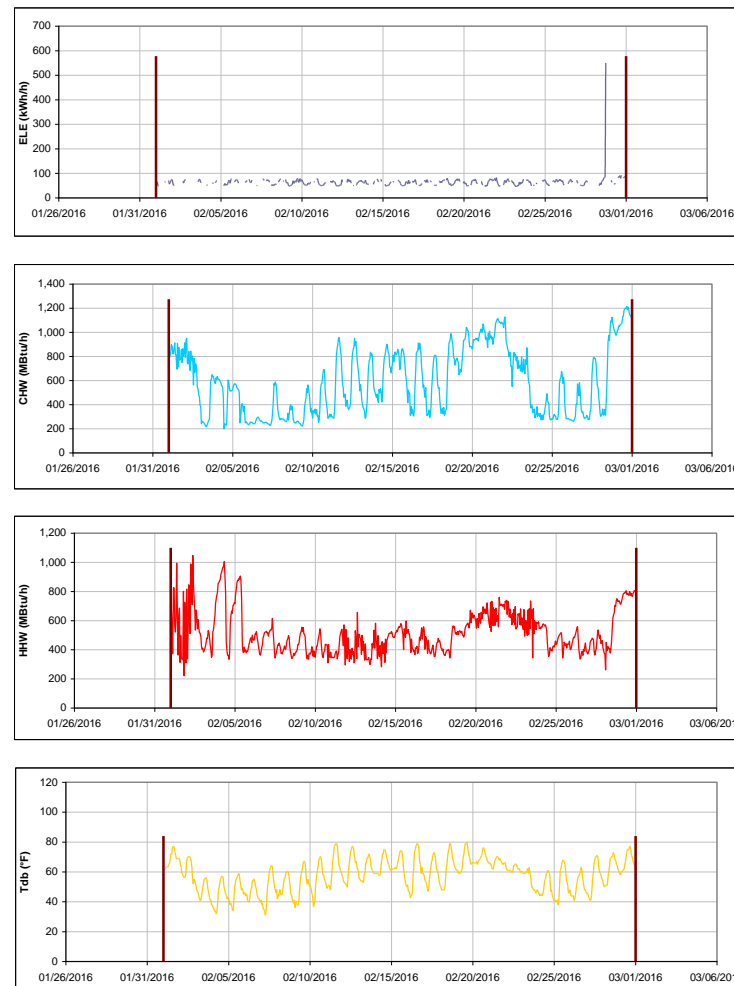


Figure III-110 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Haas Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

McFadden Residence Hall

TAMU / BLDG #: 0550

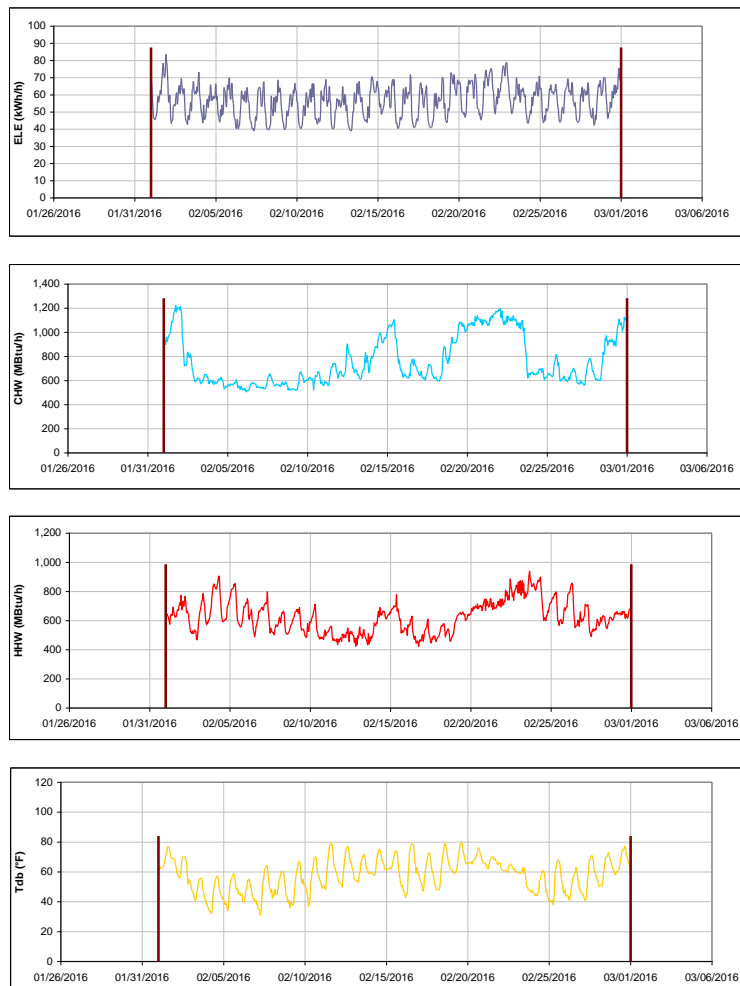


Figure III-111 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for McFadden Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Neeley Residence Hall

TAMU / BLDG #: 0652

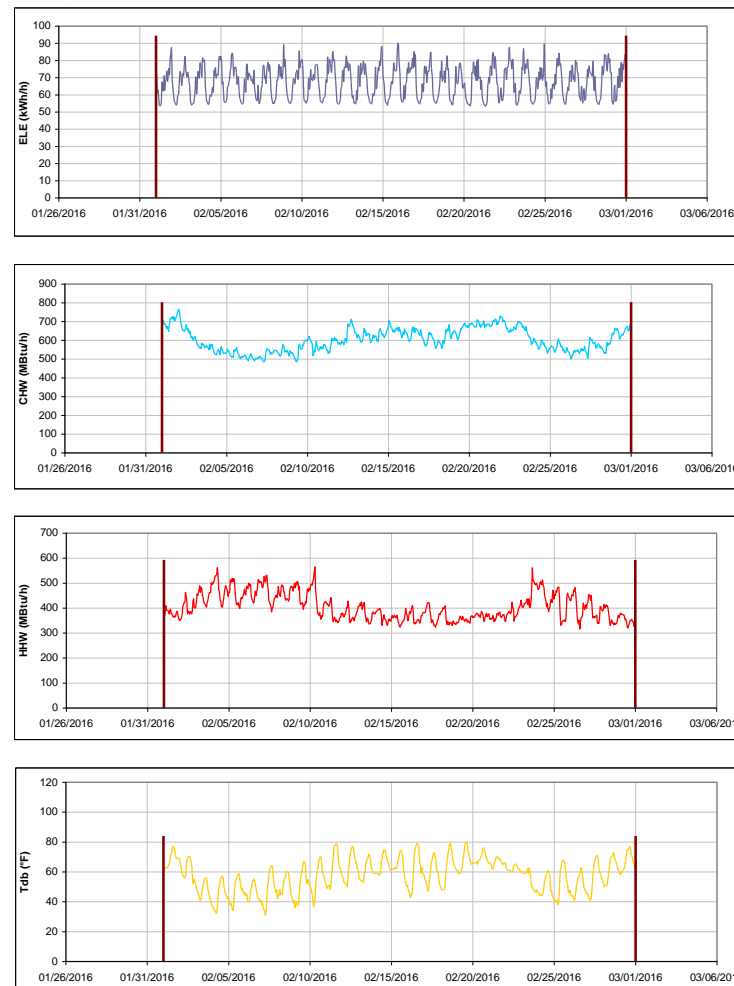


Figure III-112 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Neeley Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Hobby Residence Hall

TAMU / BLDG #: 0653



Figure III-113 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hobby Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Wisnaker Engineering Research Center

TAMU / BLDG #: 0682



Figure III-114 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wisnaker Engineering Research Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

McNew Laboratory

TAMU / BLDG #: 0740

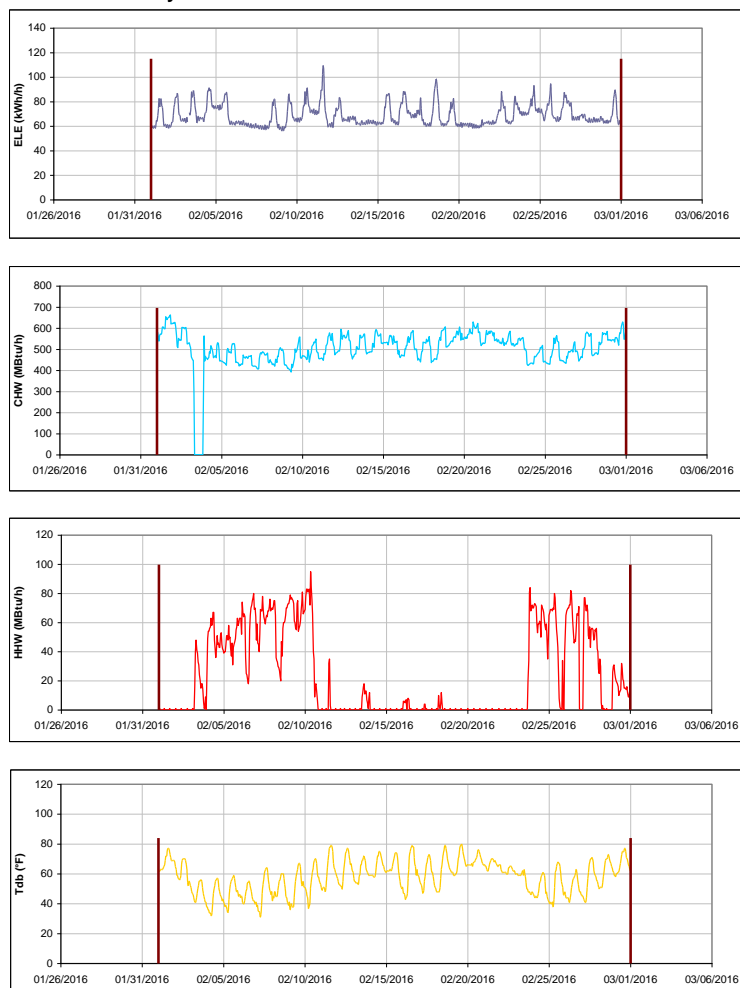


Figure III-115 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for McNew Laboratory during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Soil Testing Labs

TAMU / BLDG #: 0806

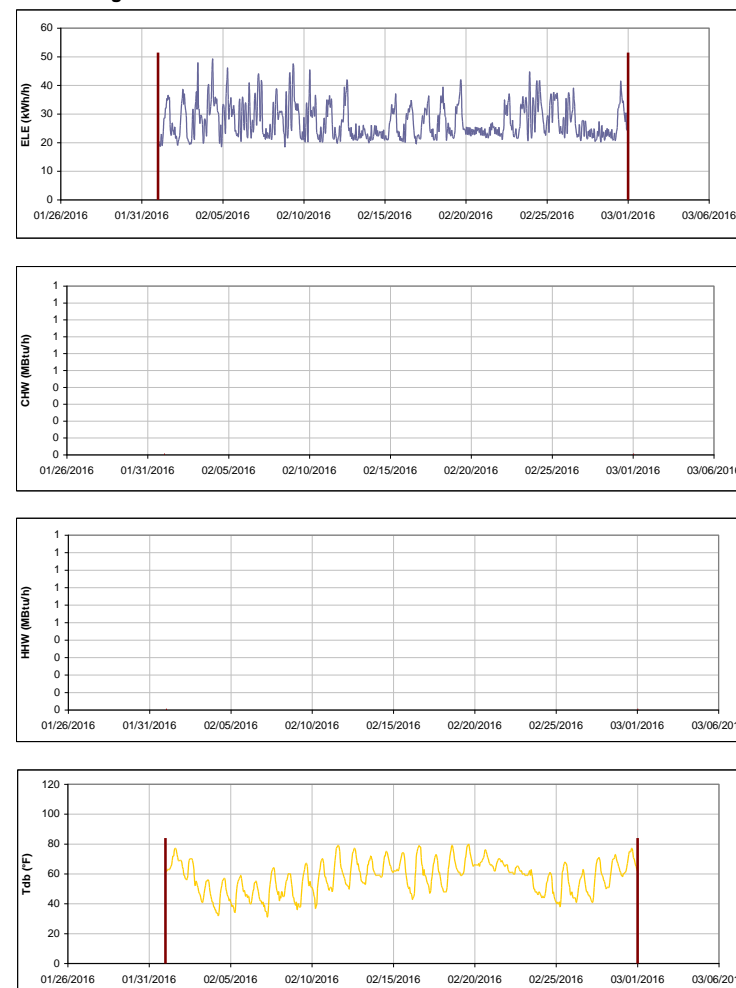


Figure III-116 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Soil Testing Labs during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Entomology Research Lab

TAMU / BLDG #: 0815

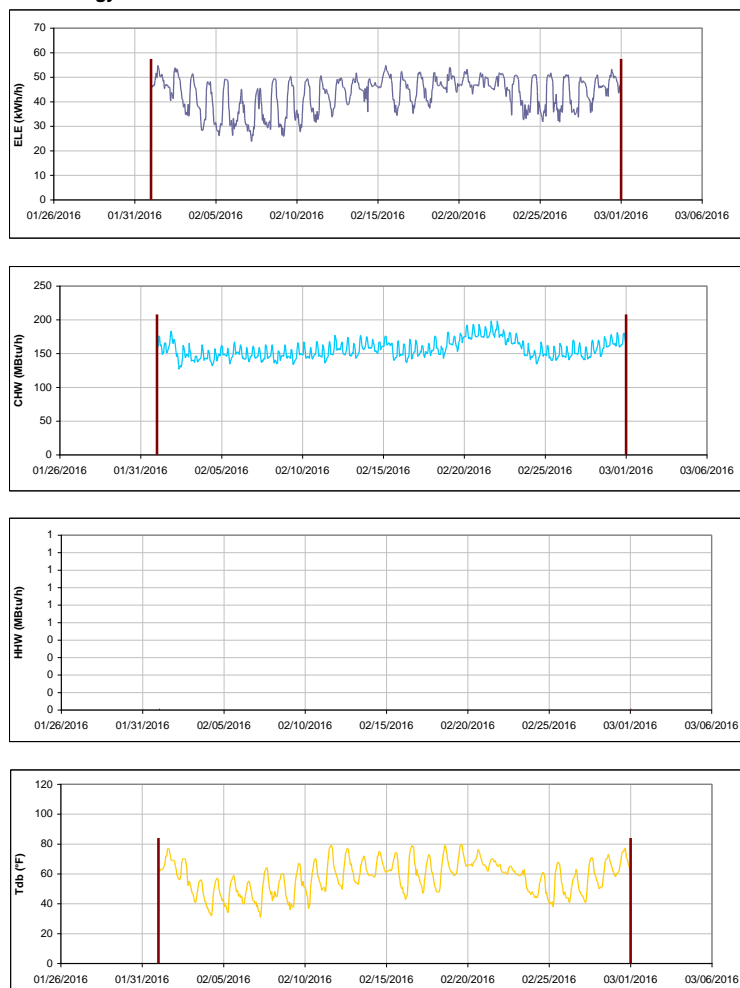


Figure III-117 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Entomology Research Lab during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TVMC-Small Animal Building

TAMU / BLDG #: 0880

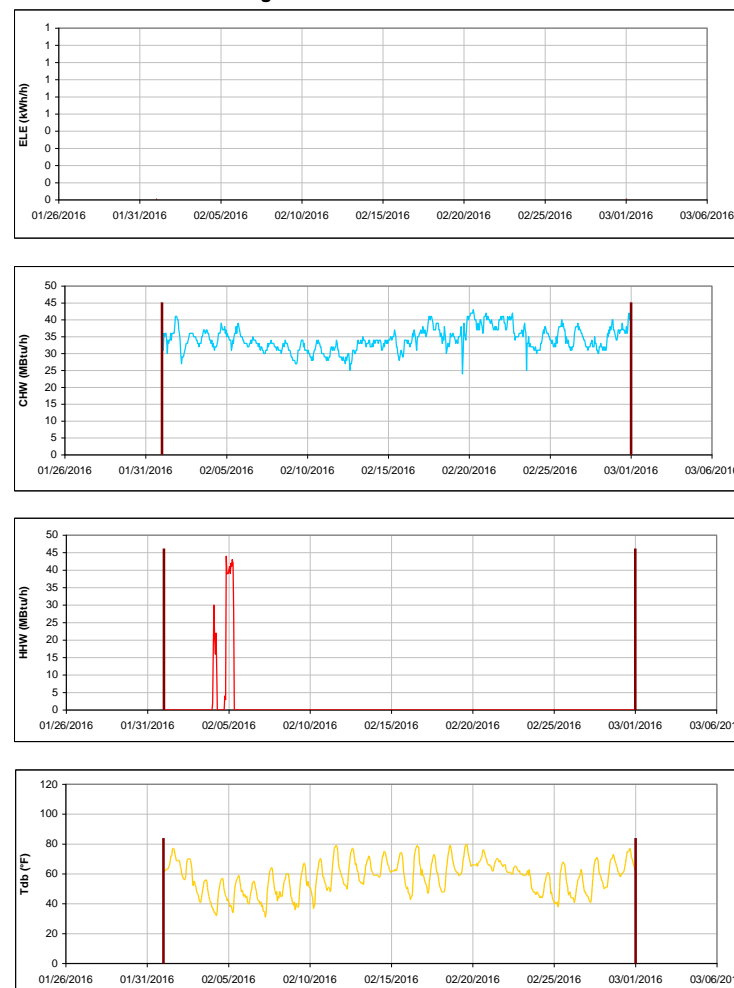


Figure III-118 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TVMC-Small Animal Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Laboratory Animal Care Building

TAMU / BLDG #: 0972

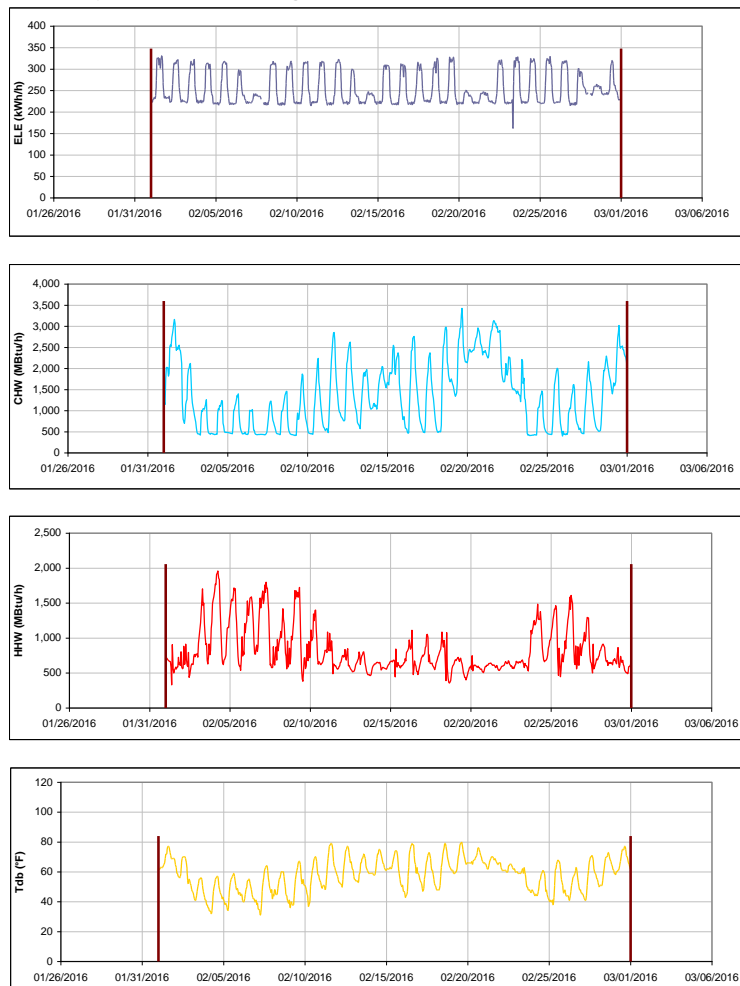


Figure III-119 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Laboratory Animal Care Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Vivarium III

TAMU / BLDG #: 1020

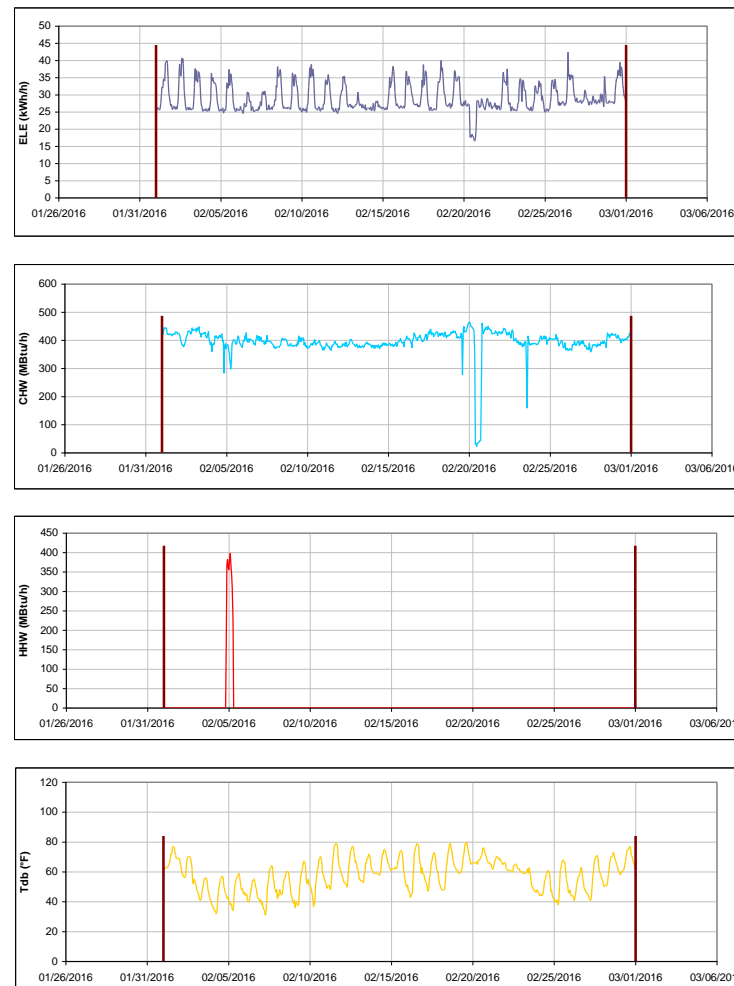


Figure III-120 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Vivarium III during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Texas Vet Med Diagnostic Lab

TAMU / BLDG #: 1041

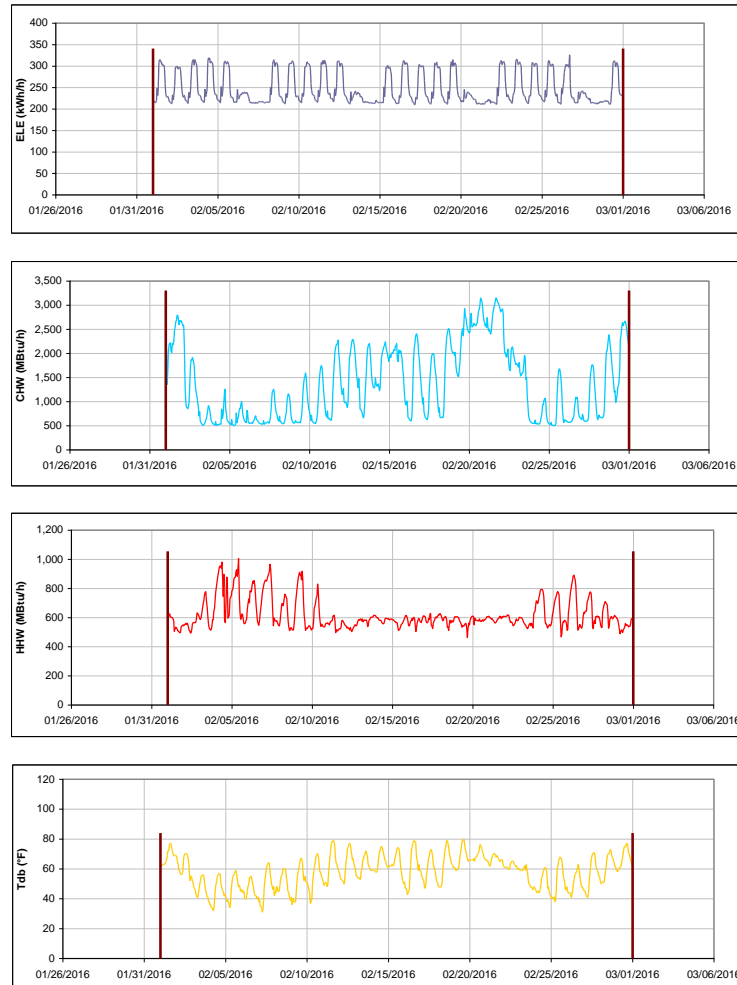


Figure III-121 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas Vet Med Diagnostic Lab during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Forest Science Laboratory Building

TAMU / BLDG #: 1042

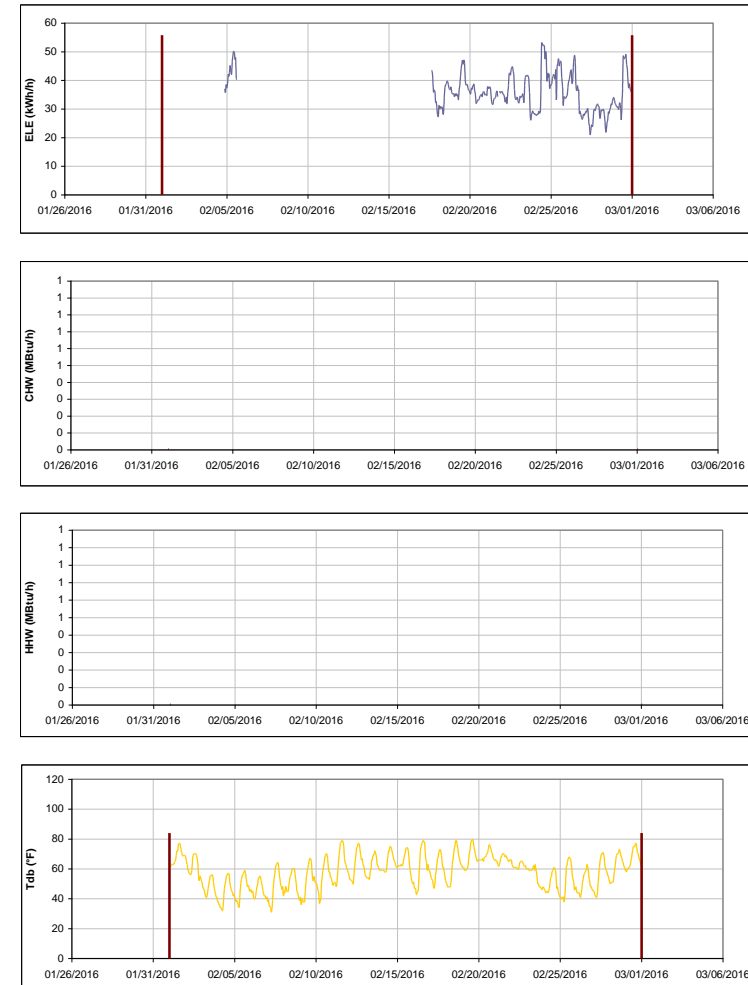


Figure III-122 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Forest Science Laboratory Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Small Animal Hospital

TAMU / BLDG #: 1085

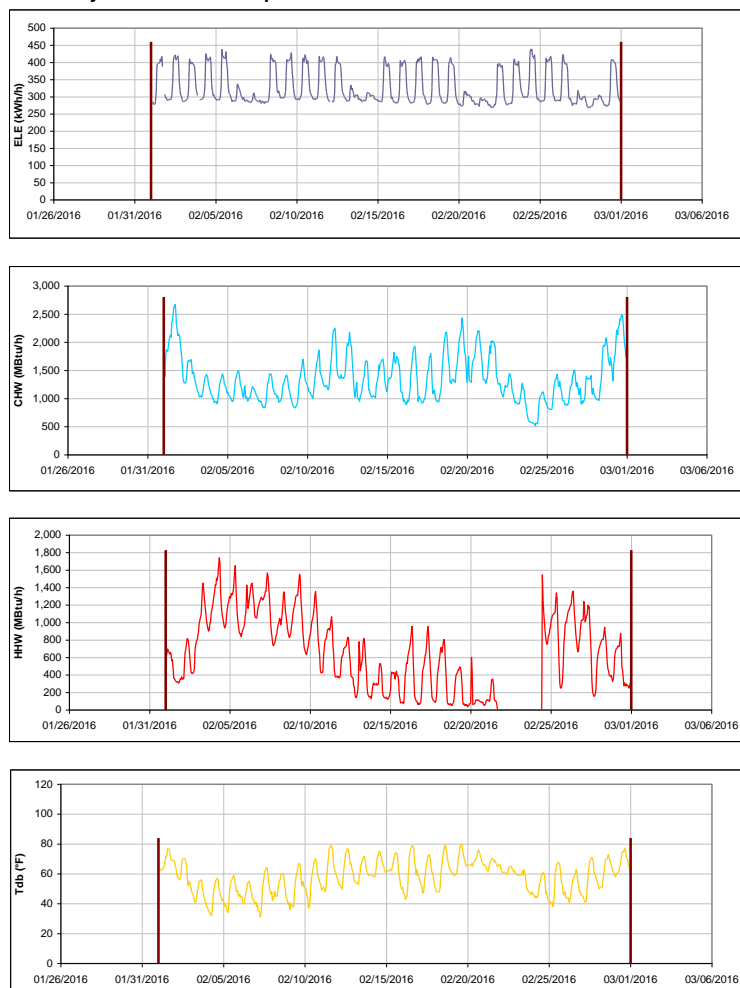


Figure III-123 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Small Animal Hospital during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utilities Energy Office Annex

TAMU / BLDG #: 1089

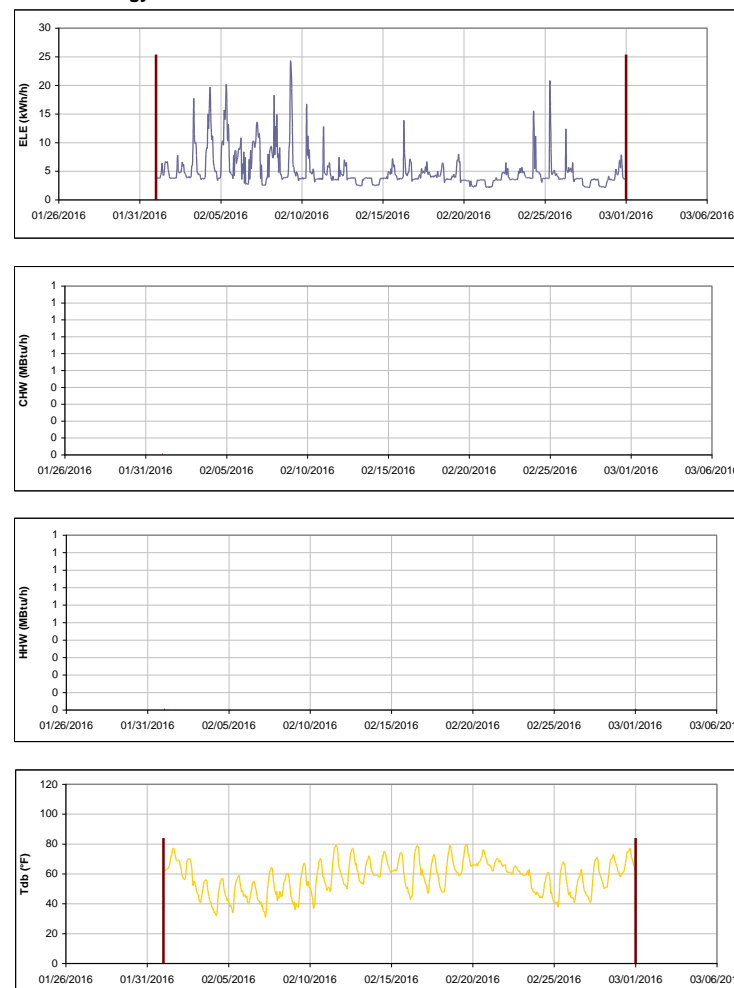


Figure III-124 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities Energy Office Annex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biological Control Facility

TAMU / BLDG #: 1146

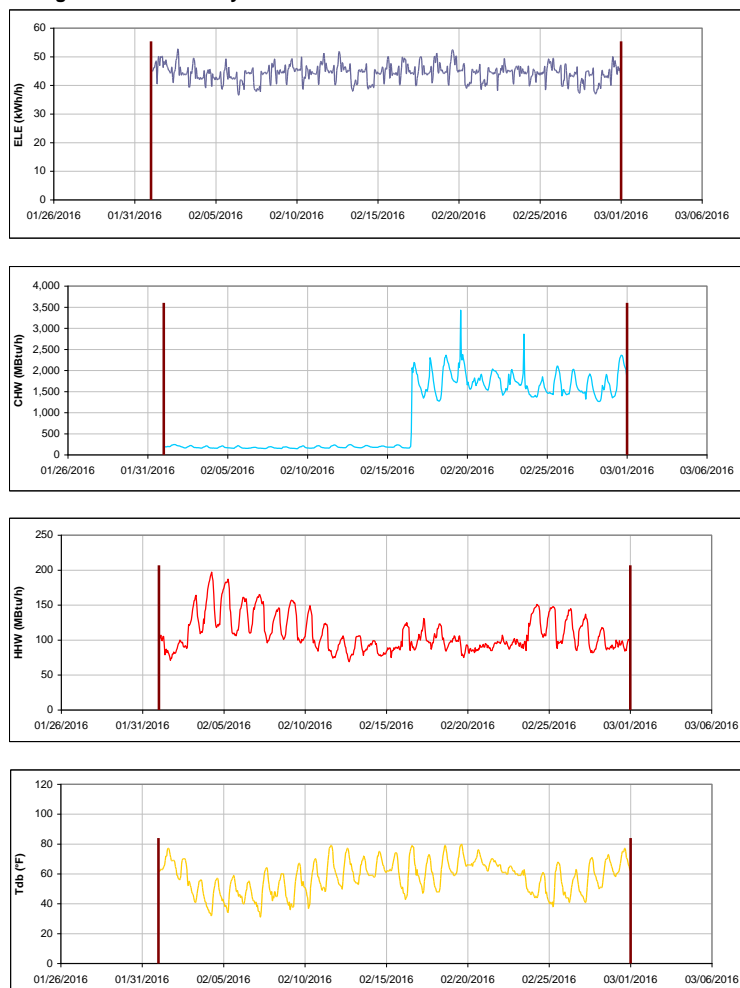


Figure III-125 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biological Control Facility during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Physical Plant Administration & Shops

TAMU / BLDG #: 1156

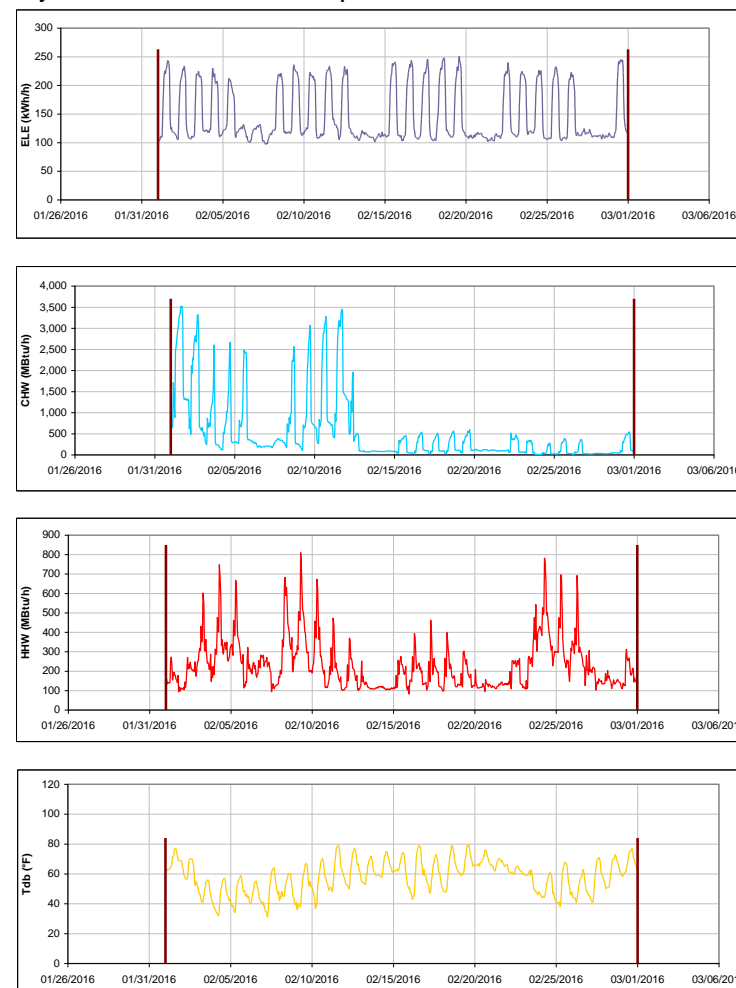


Figure III-126 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Physical Plant Administration & Shops during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Anatomic Pathology

TAMU / BLDG #: 1184

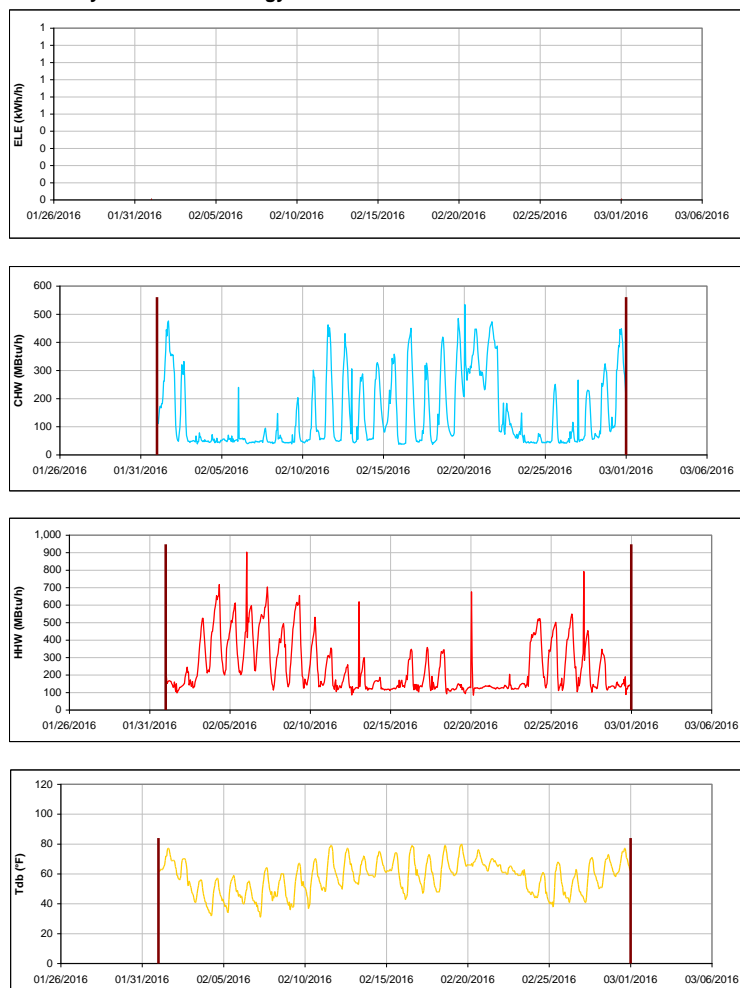


Figure III-127 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Anatomic Pathology during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Large Animal Hospital

TAMU / BLDG #: 1194

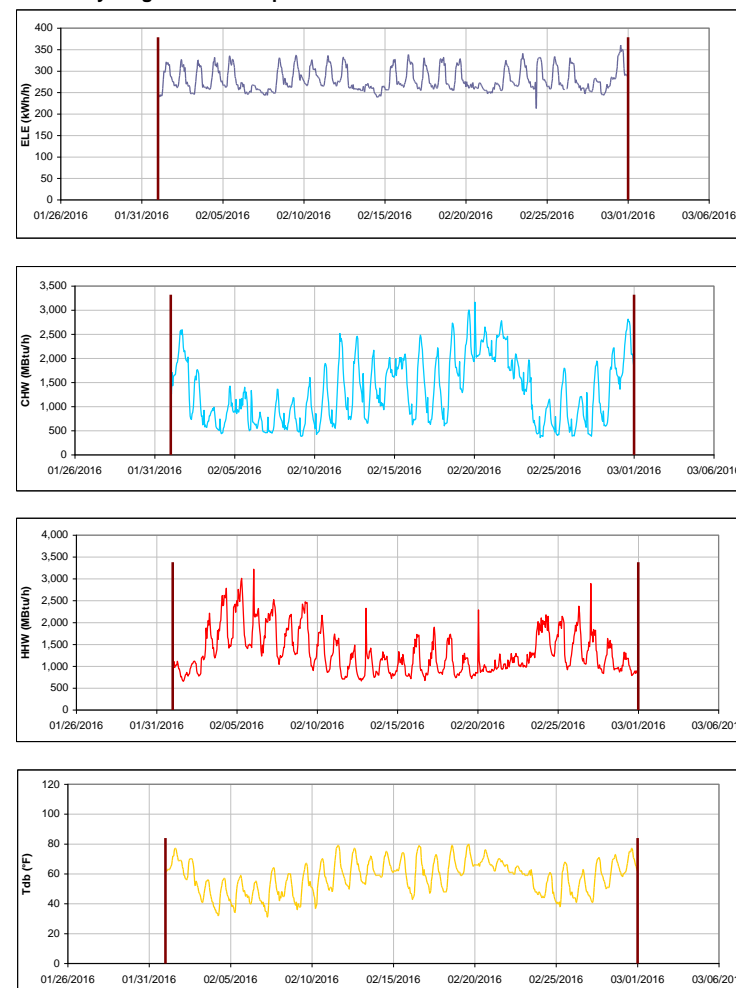


Figure III-128 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Large Animal Hospital during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Veterinary Research Building

TAMU / BLDG #: 1197

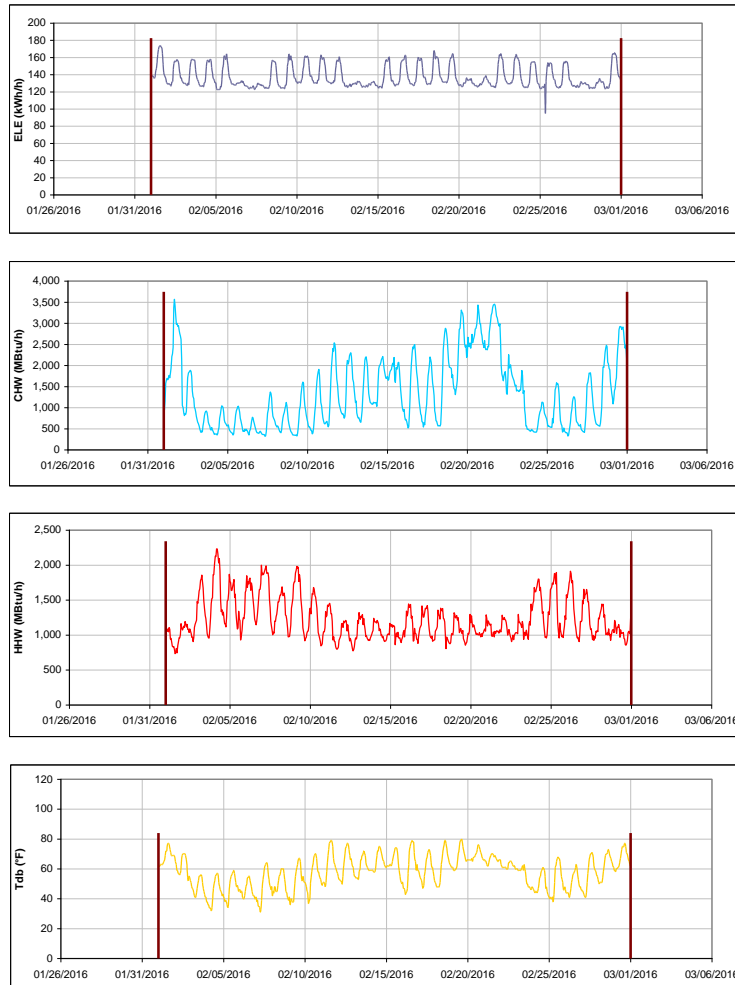


Figure III-129 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Veterinary Research Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Hullabaloo Residence Hall

TAMU / BLDG #: 1416

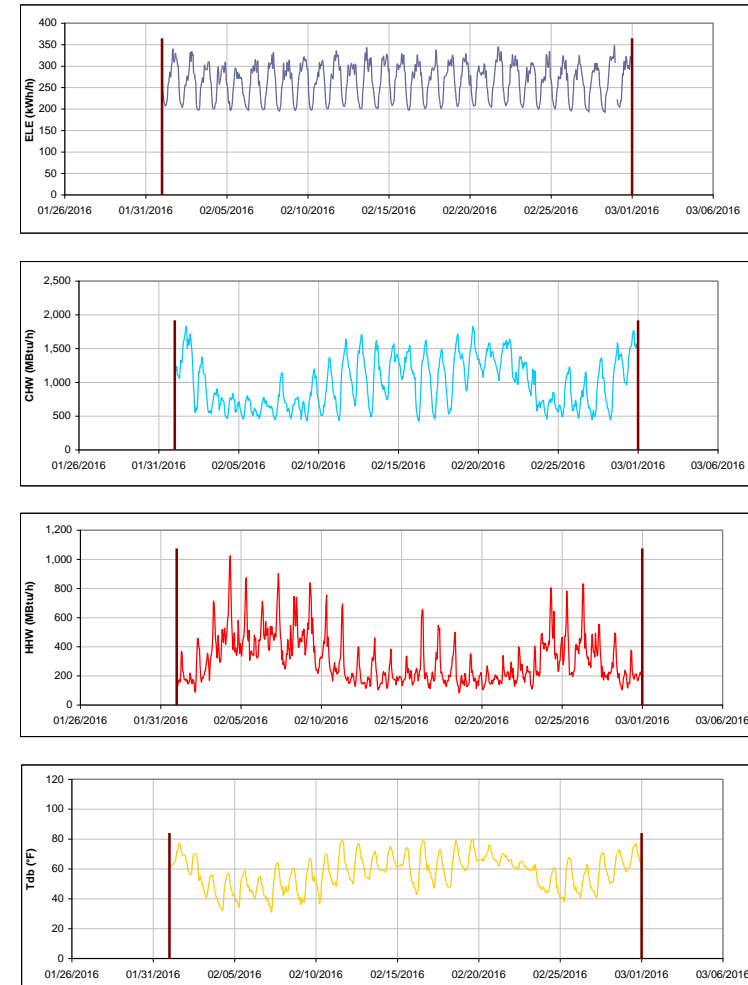


Figure III-130 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Hullabaloo Residence Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - Laundry at the Gardens

TAMU / BLDG #: 1450

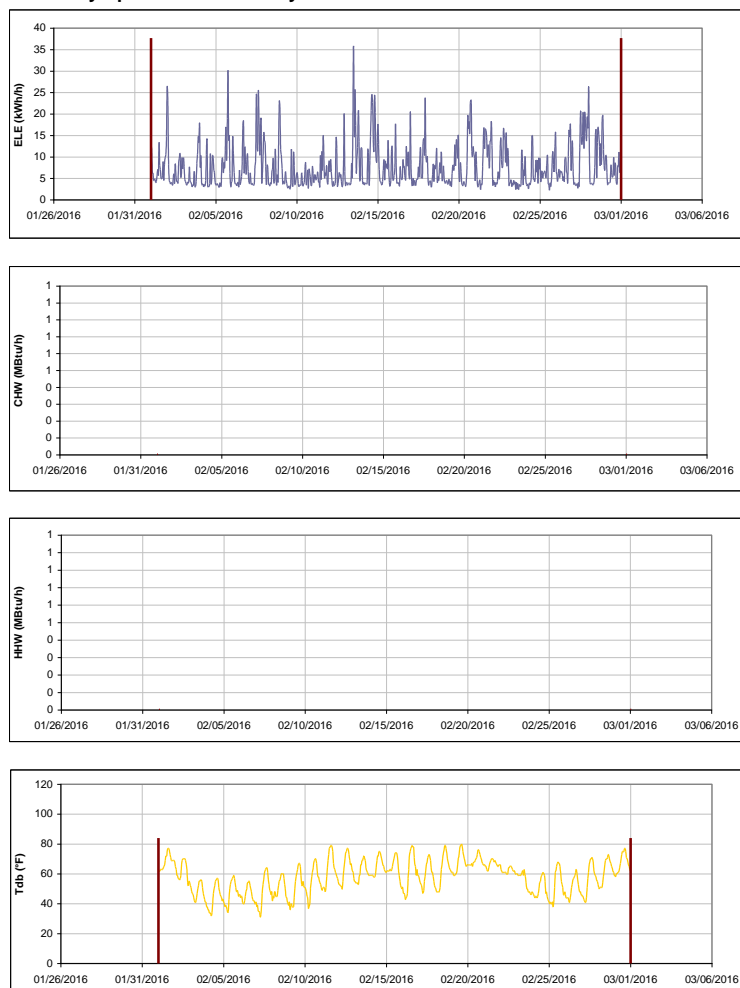


Figure III-131 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - Laundry at the Gardens during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens J

TAMU / BLDG #: 1451

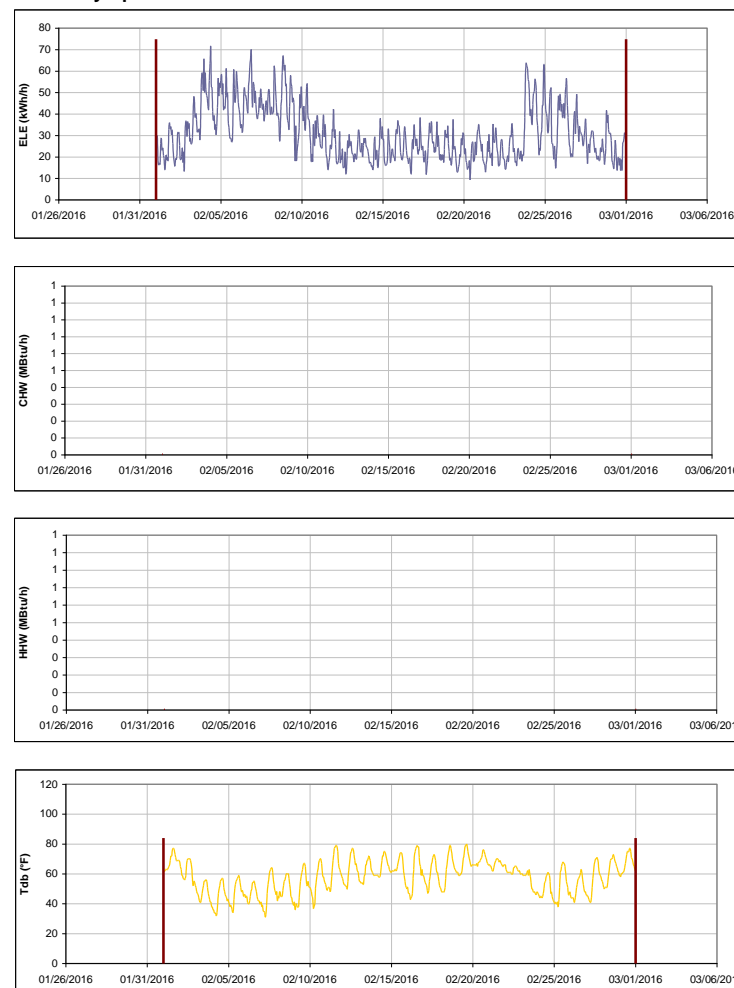


Figure III-132 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens J during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens L

TAMU / BLDG #: 1453

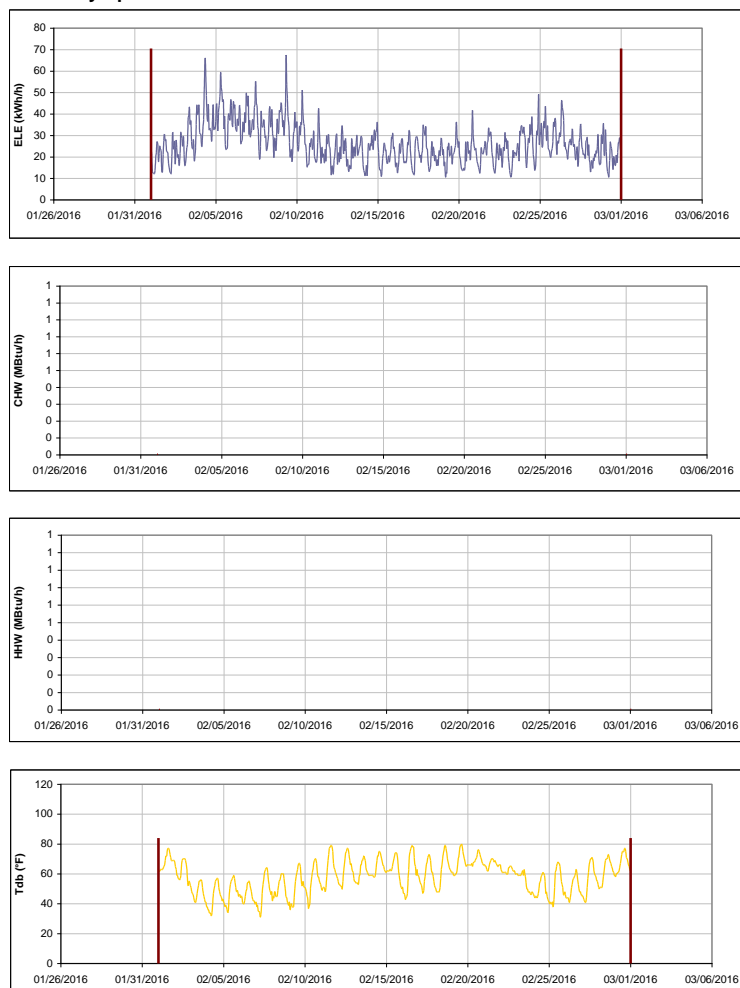


Figure III-133 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens L during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens F

TAMU / BLDG #: 1454

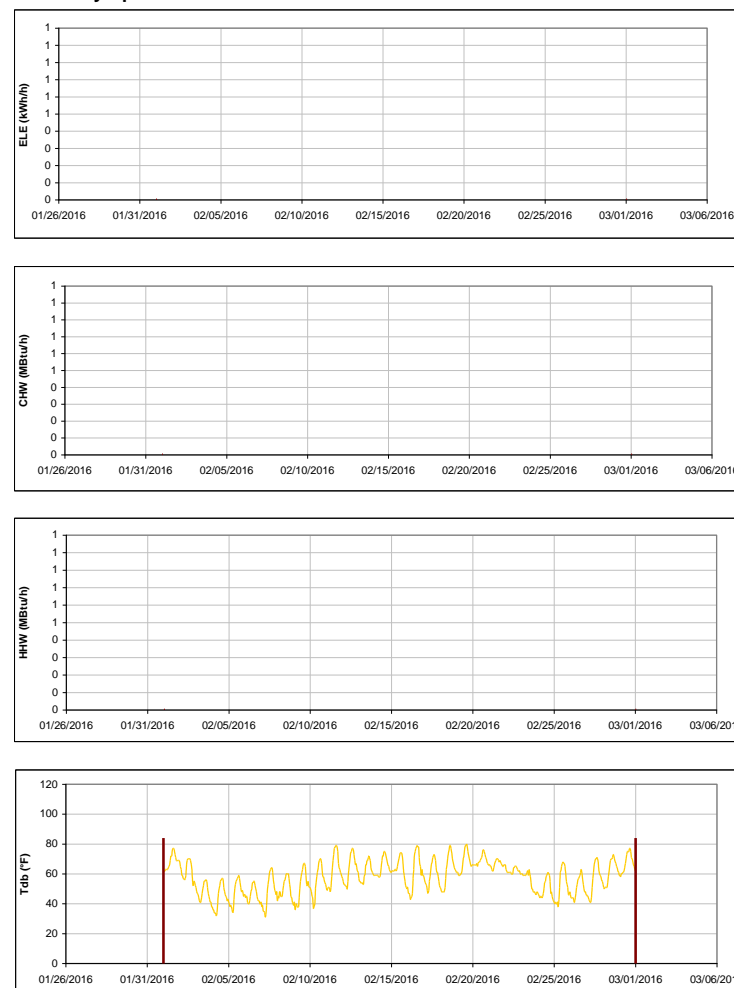


Figure III-134 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens F during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens G

TAMU / BLDG #: 1455

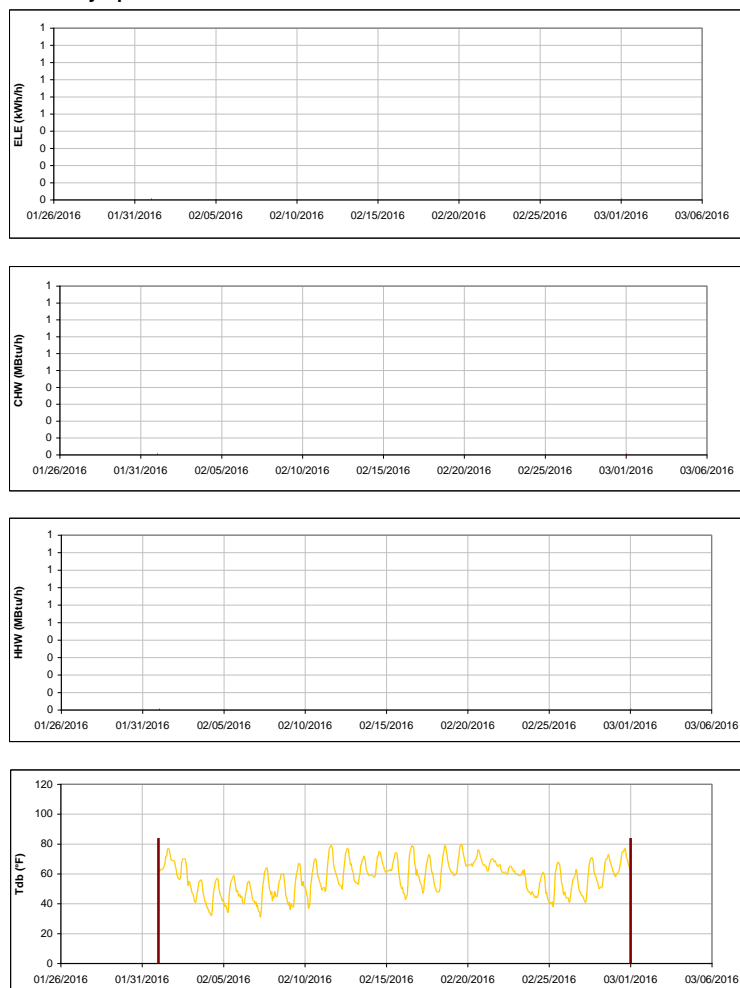


Figure III-135 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens G during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens H

TAMU / BLDG #: 1456

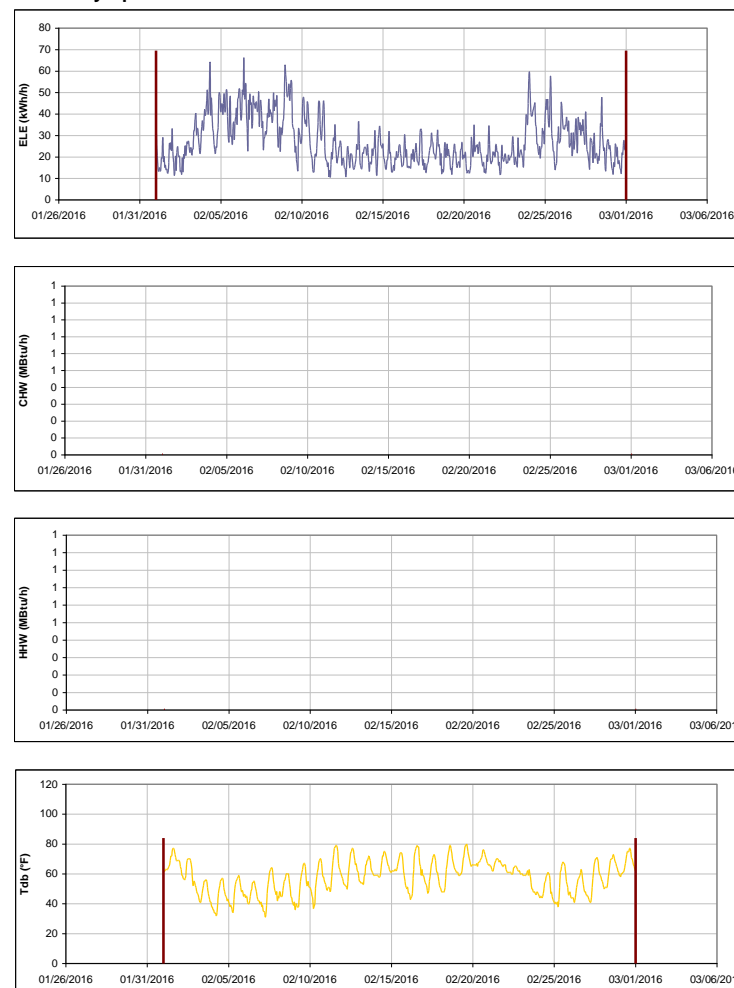


Figure III-136 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens H during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens M

TAMU / BLDG #: 1457

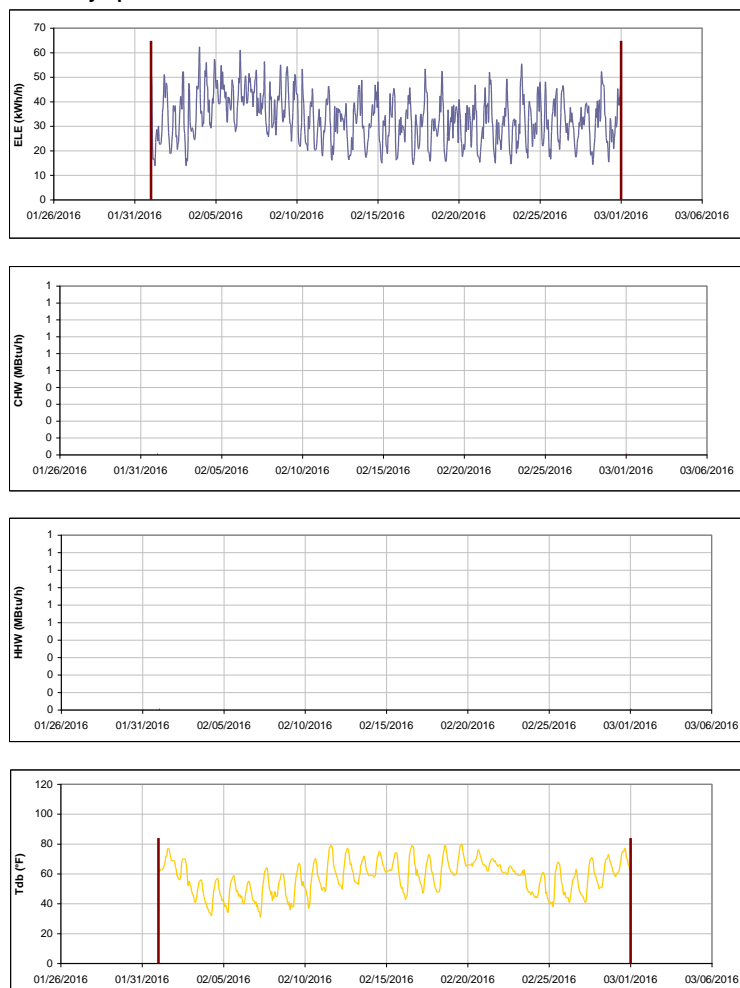


Figure III-137 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens M during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens N

TAMU / BLDG #: 1458

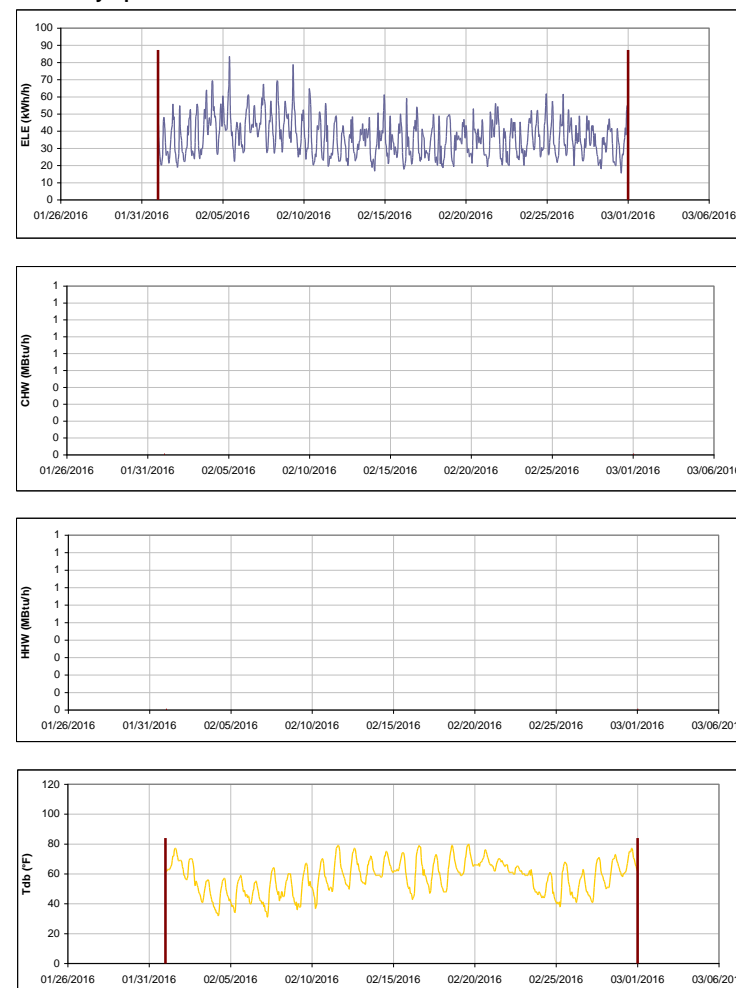


Figure III-138 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens N during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens P

TAMU / BLDG #: 1459

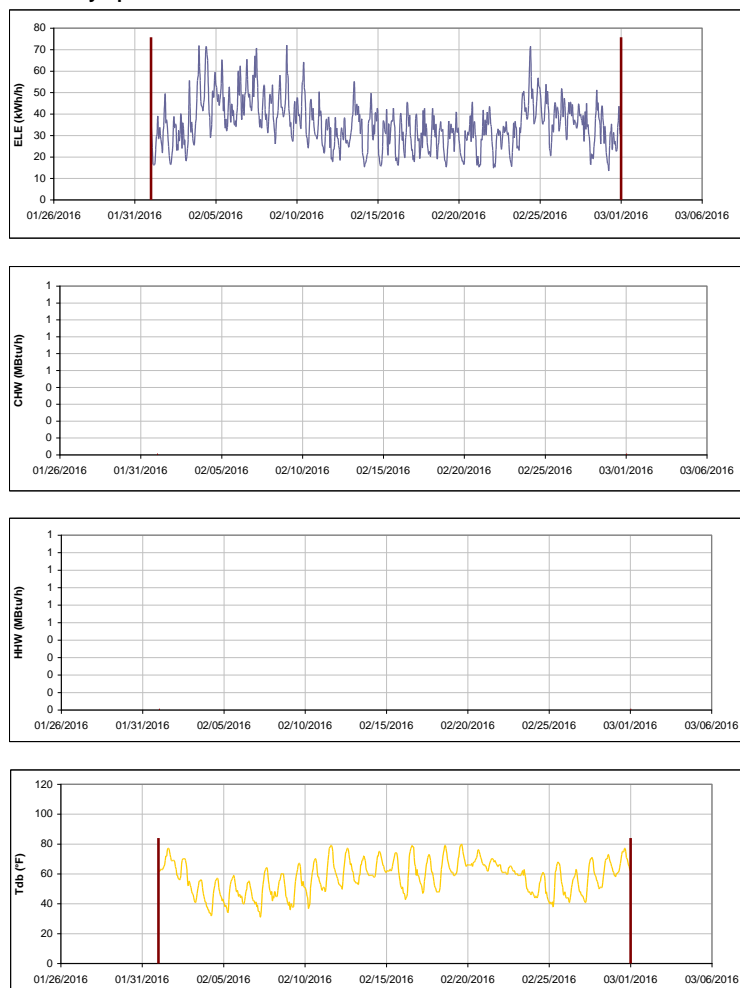


Figure III-139 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens P during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

University Apartments - The Gardens Q

TAMU / BLDG #: 1460

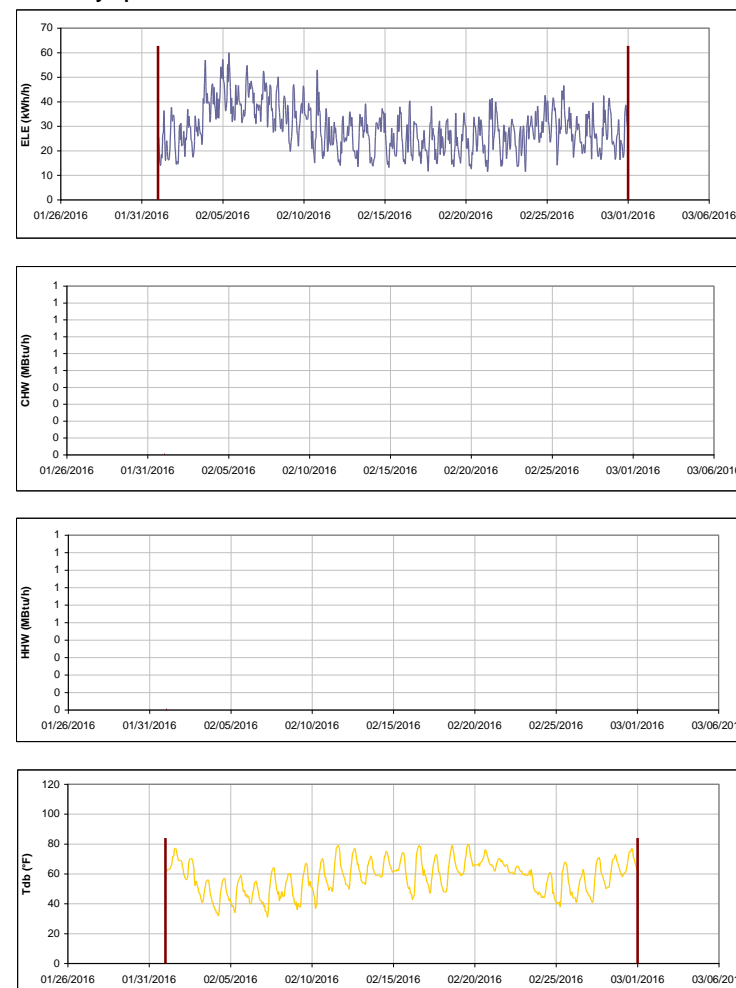


Figure III-140 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for University Apartments - The Gardens Q during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Utilities & Energy Services Business Office

TAMU / BLDG #: 1497

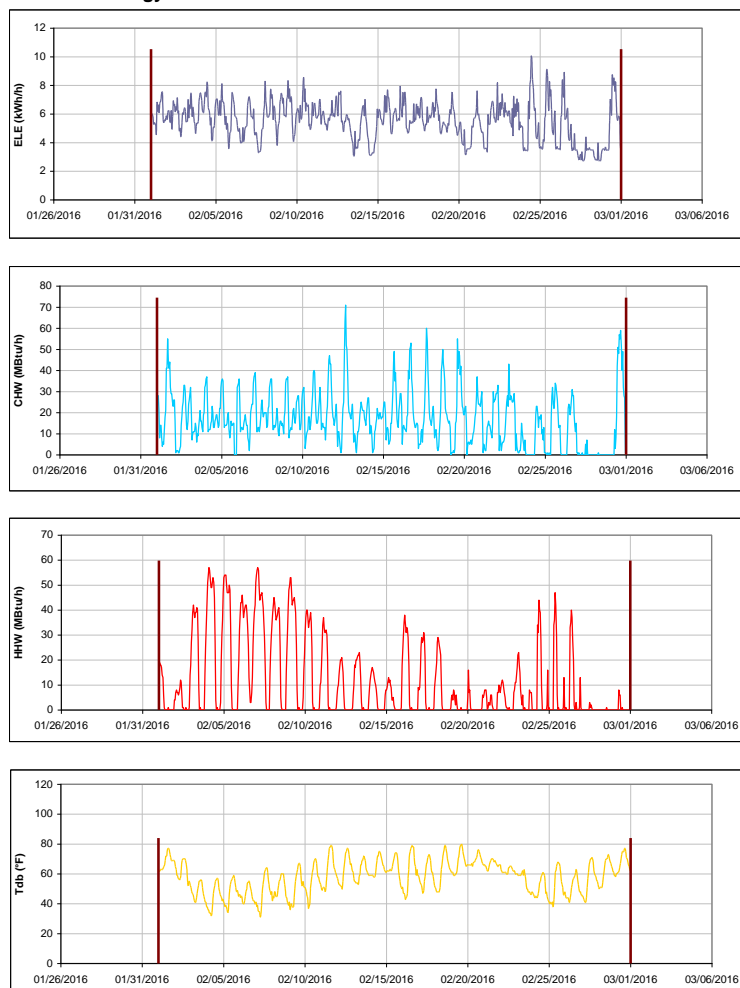


Figure III-141 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Utilities & Energy Services Business Office during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Kleberg Center

TAMU / BLDG #: 1501

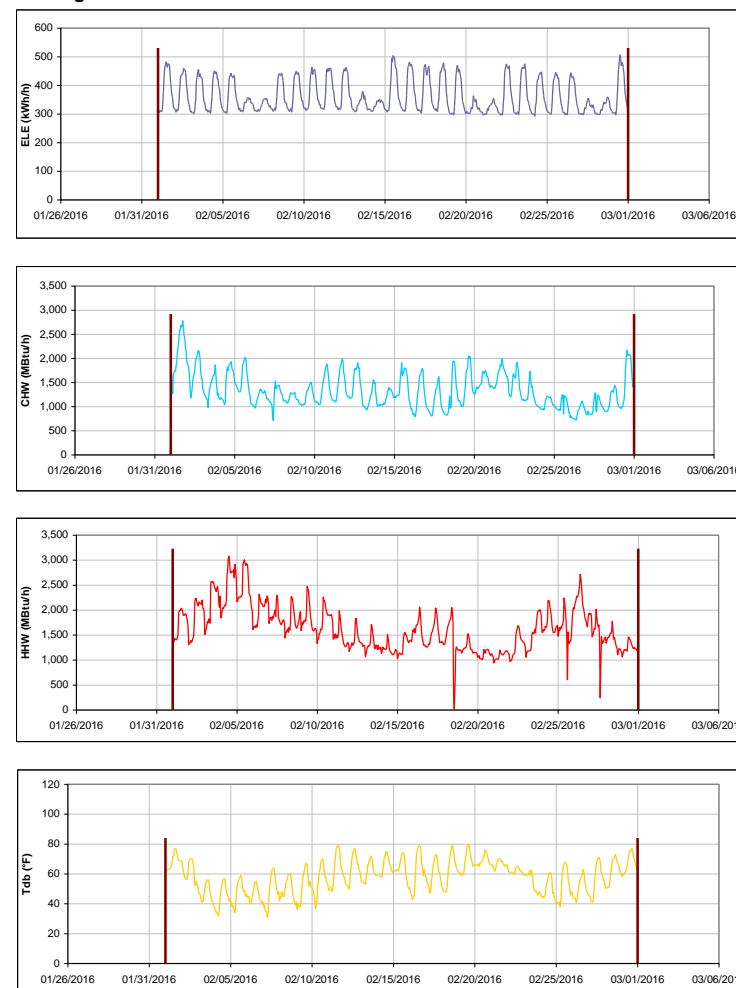


Figure III-142 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Kleberg Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Heep Center

TAMU / BLDG #: 1502



Figure III-143 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Heep Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Cater-Mattil Hall

TAMU / BLDG #: 1503



Figure III-144 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cater-Mattil Hall during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reynolds Medical Sciences Building

TAMU / BLDG #: 1504

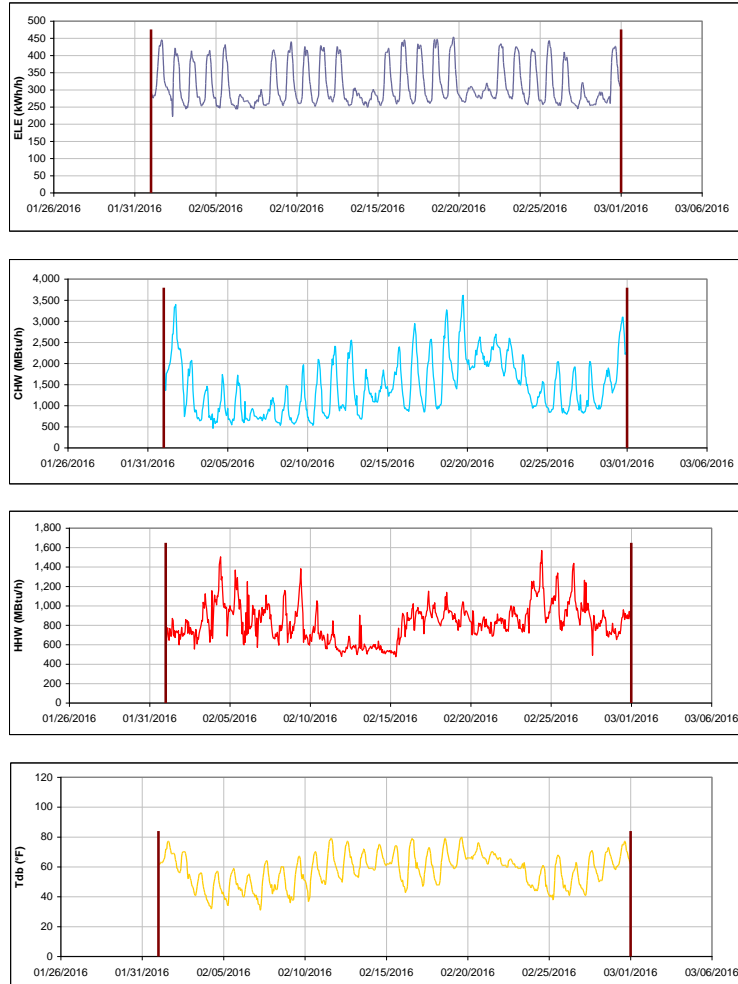


Figure III-145 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reynolds Medical Sciences Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Rosenthal Meat Science & Technology Center

TAMU / BLDG #: 1505



Figure III-146 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Rosenthal Meat Science & Technology Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Horticulture-Forest Science Building

TAMU / BLDG #: 1506

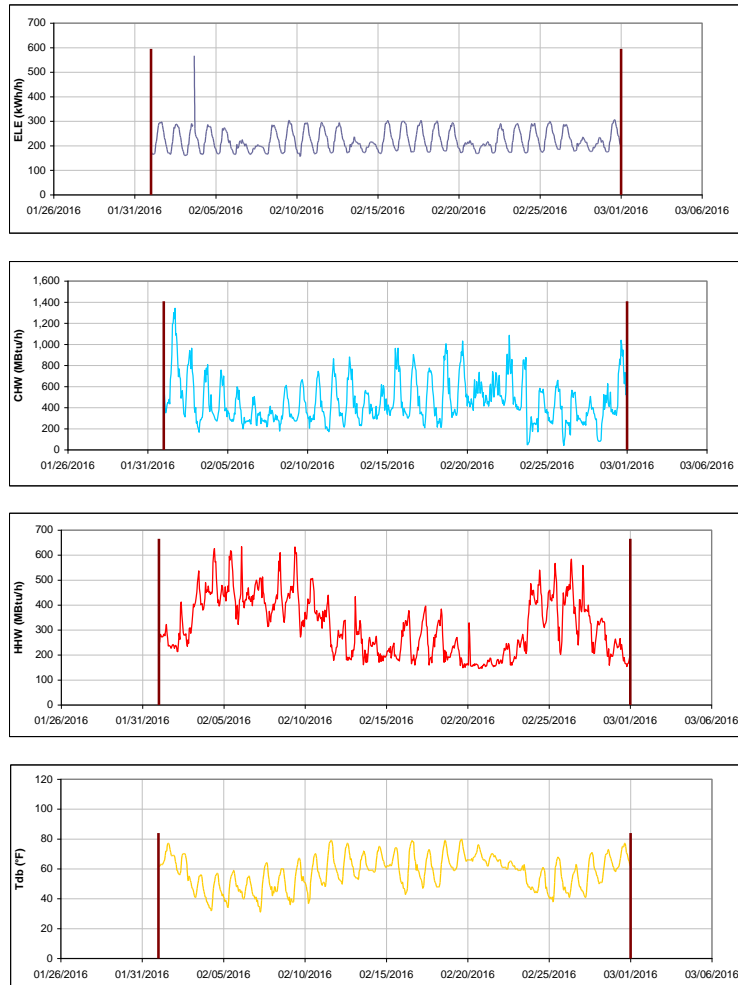


Figure III-147 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Horticulture-Forest Science Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Biochemistry-Biophysics Building

TAMU / BLDG #: 1507

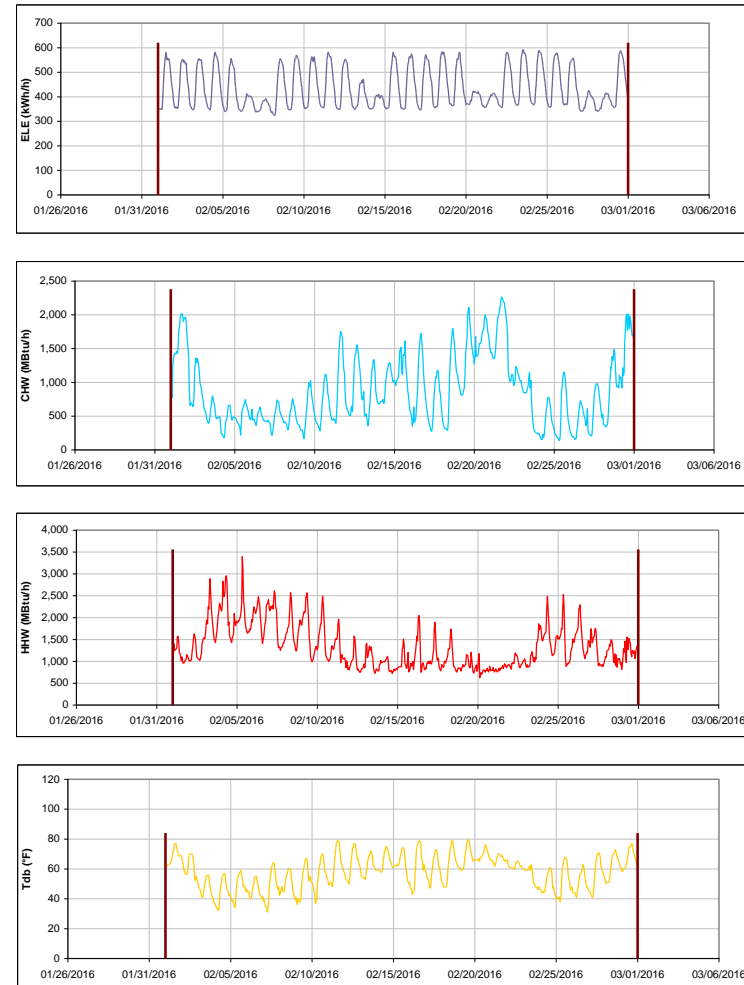


Figure III-148 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Biochemistry-Biophysics Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Price Hobgood Ag. Engineering Research Lab

TAMU / BLDG #: 1508

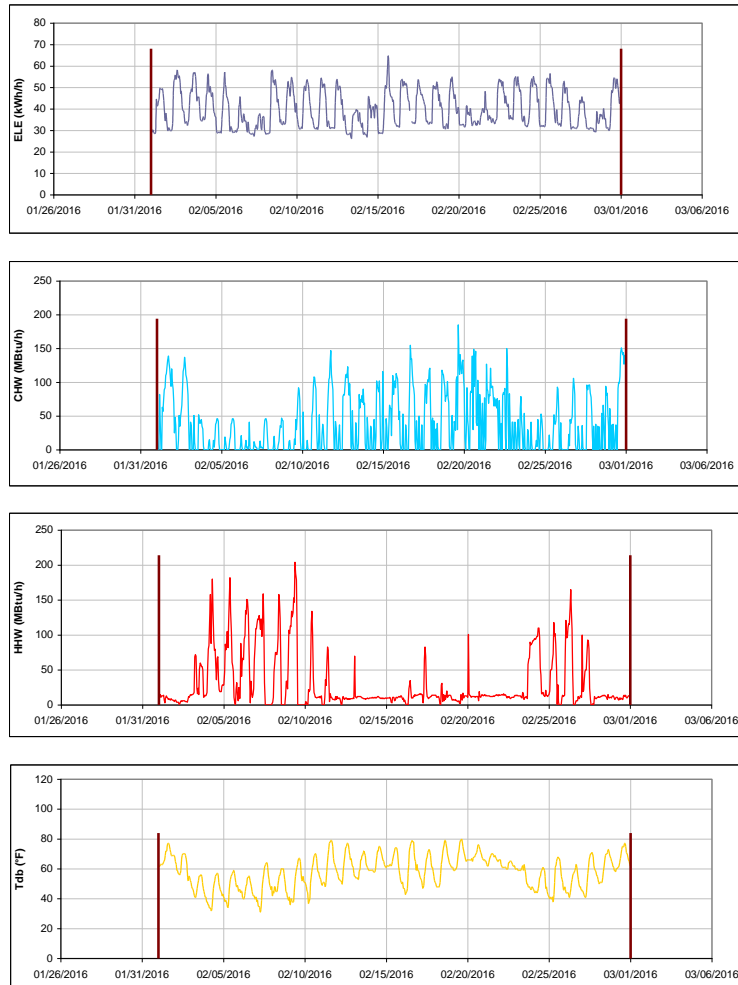


Figure III-149 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Price Hobgood Ag. Engineering Research Lab during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Medical Sciences Library

TAMU / BLDG #: 1509

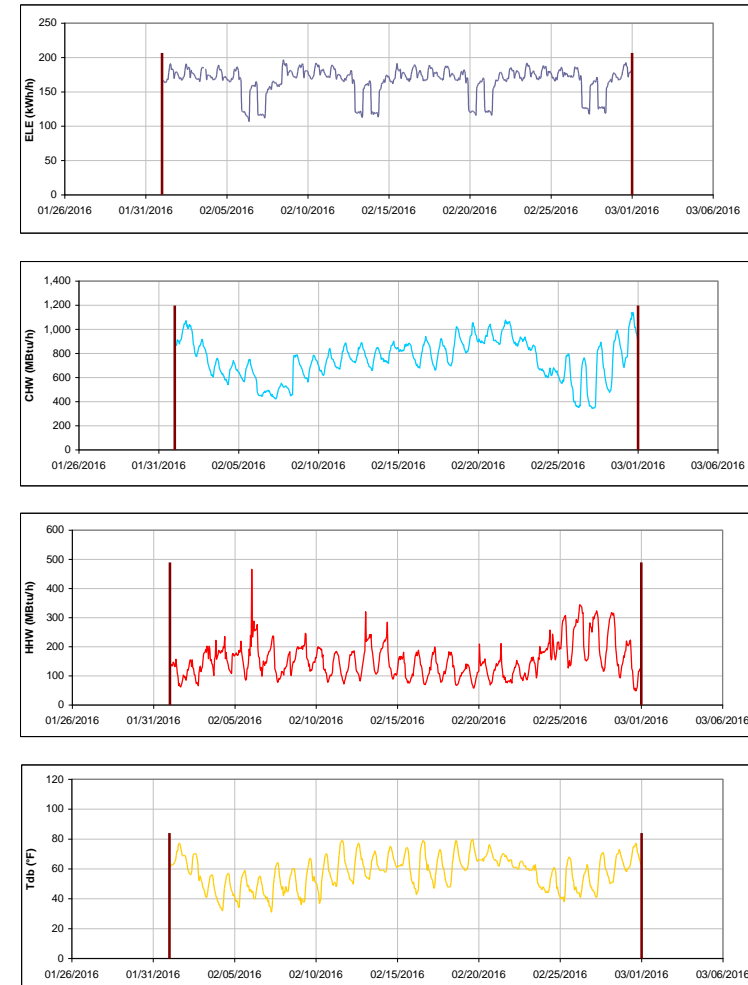


Figure III-150 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Medical Sciences Library during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Wehner Building

TAMU / BLDG #: 1510

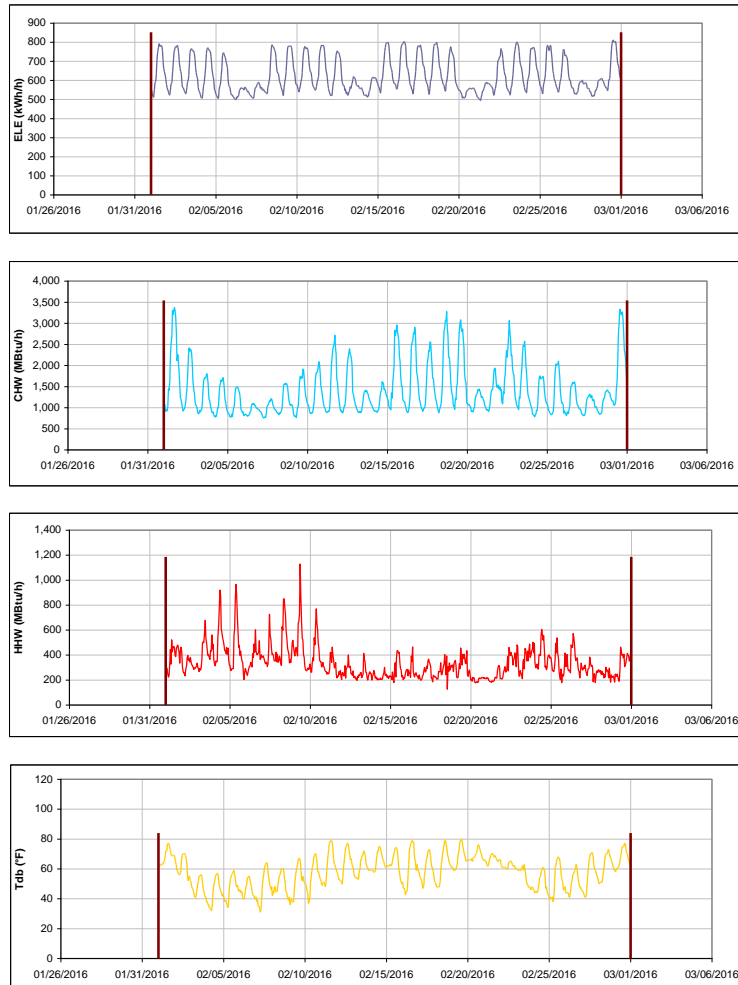


Figure III-151 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Wehner Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

West Campus Library Facility

TAMU / BLDG #: 1511

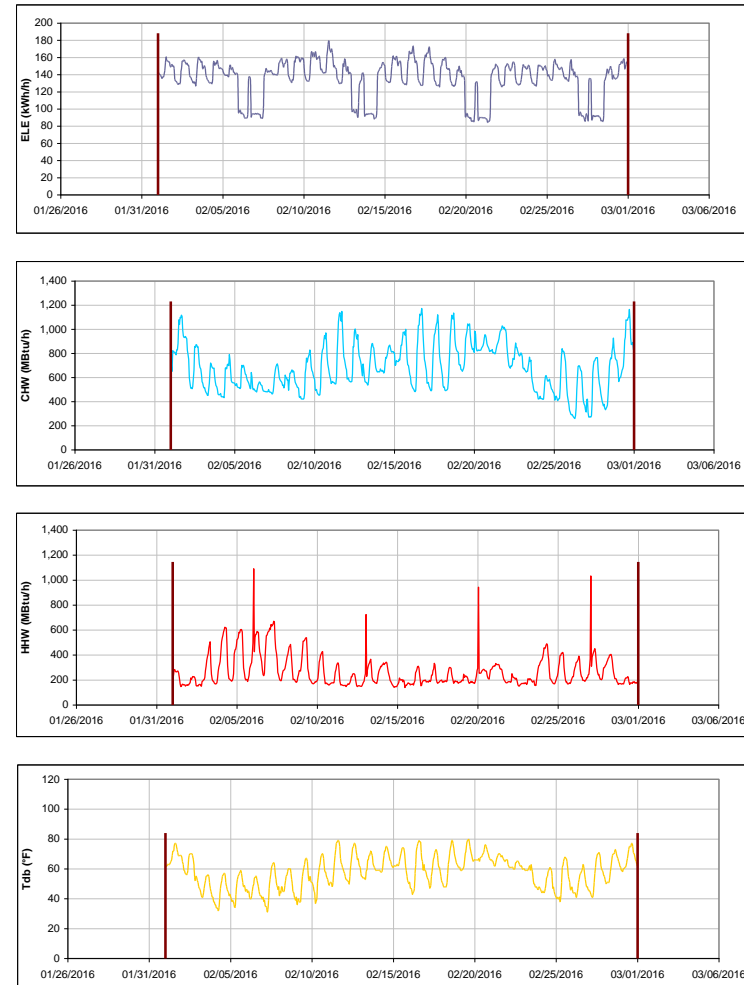


Figure III-152 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for West Campus Library Facility during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Southern Crop Improvement Greenhouse

TAMU / BLDG #: 1512

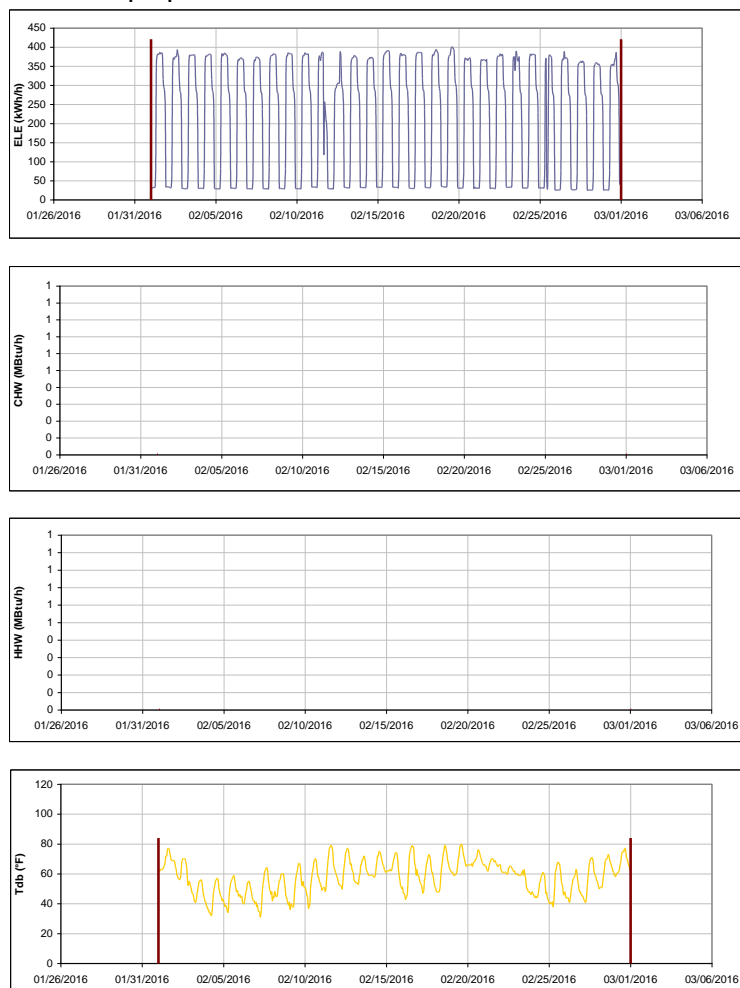


Figure III-153 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Southern Crop Improvement Greenhouse during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Borlaug Center for Southern Crop Improvement

TAMU / BLDG #: 1513

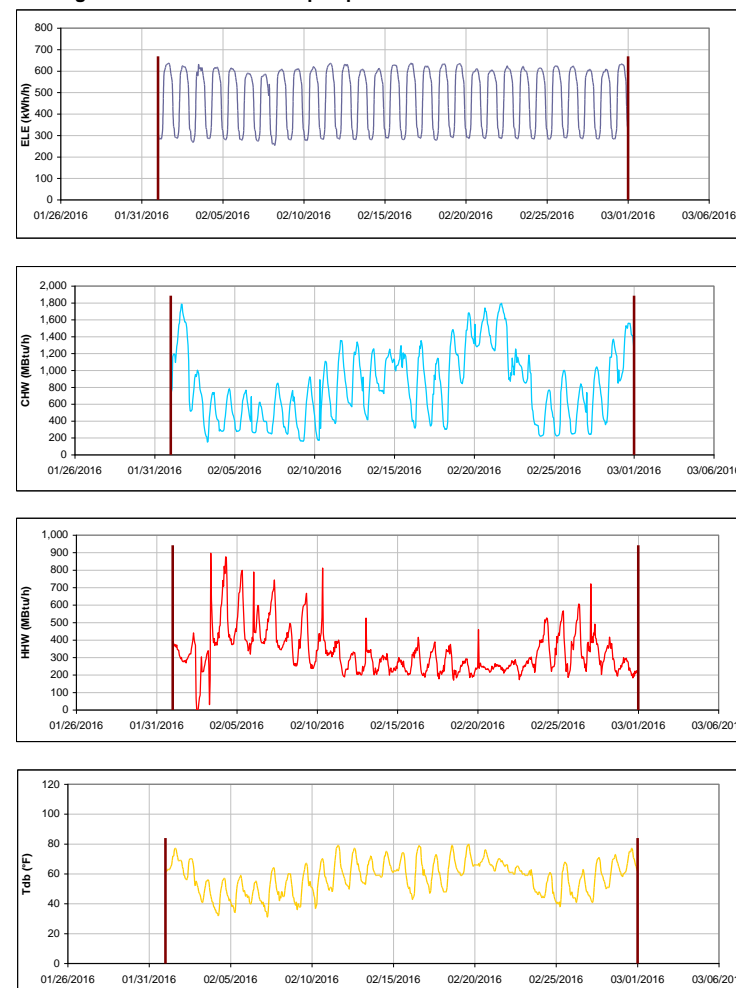


Figure III-154 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Borlaug Center for Southern Crop Improvement during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TX School of Rural Public Health

TAMU / BLDG #: 1518

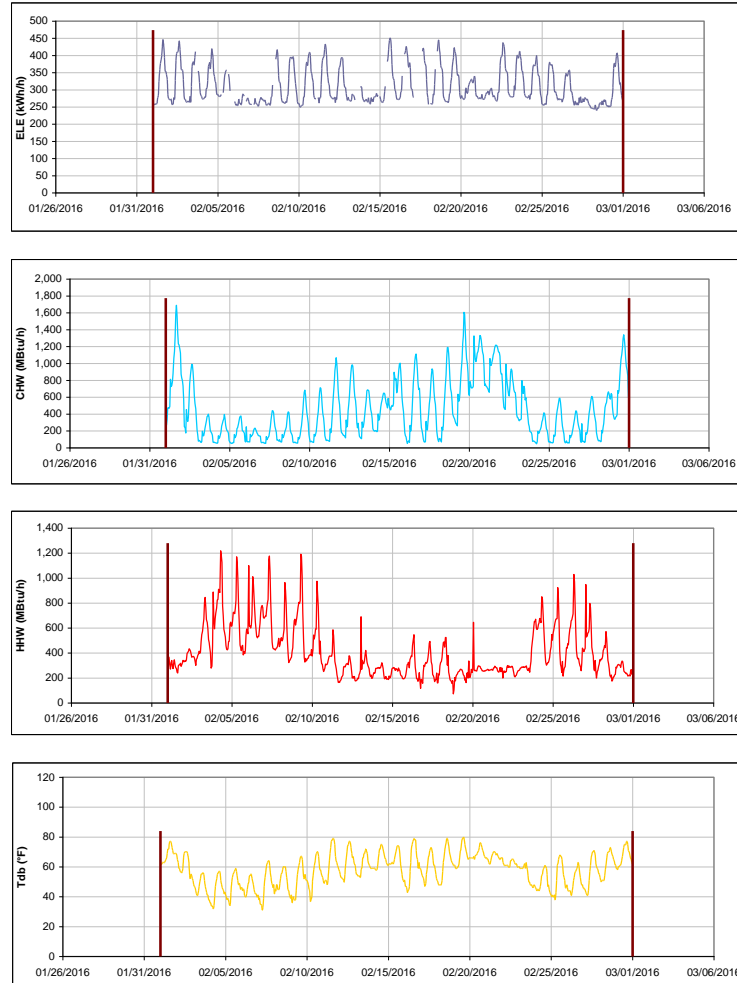


Figure III-155 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TX School of Rural Public Health during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Nuclear Magnetic Resonance Facility

TAMU / BLDG #: 1525



Figure III-156 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Nuclear Magnetic Resonance Facility during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Interdisciplinary Life Sciences Building

TAMU / BLDG #: 1530

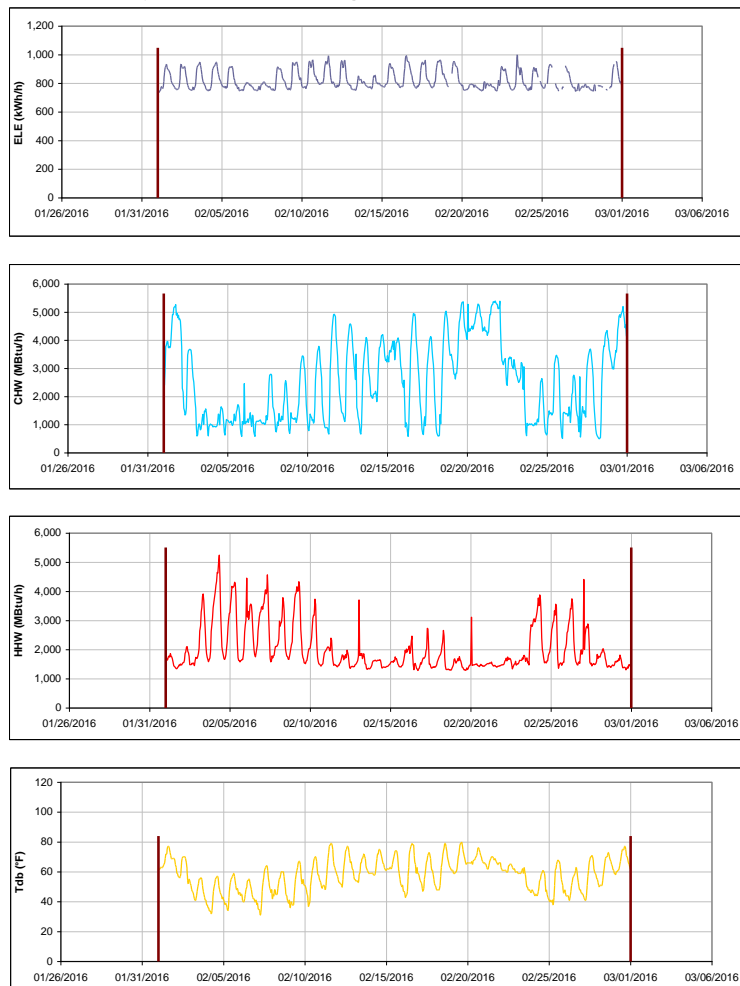


Figure III-157 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Interdisciplinary Life Sciences Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Agriculture and Life Sciences Building

TAMU / BLDG #: 1535

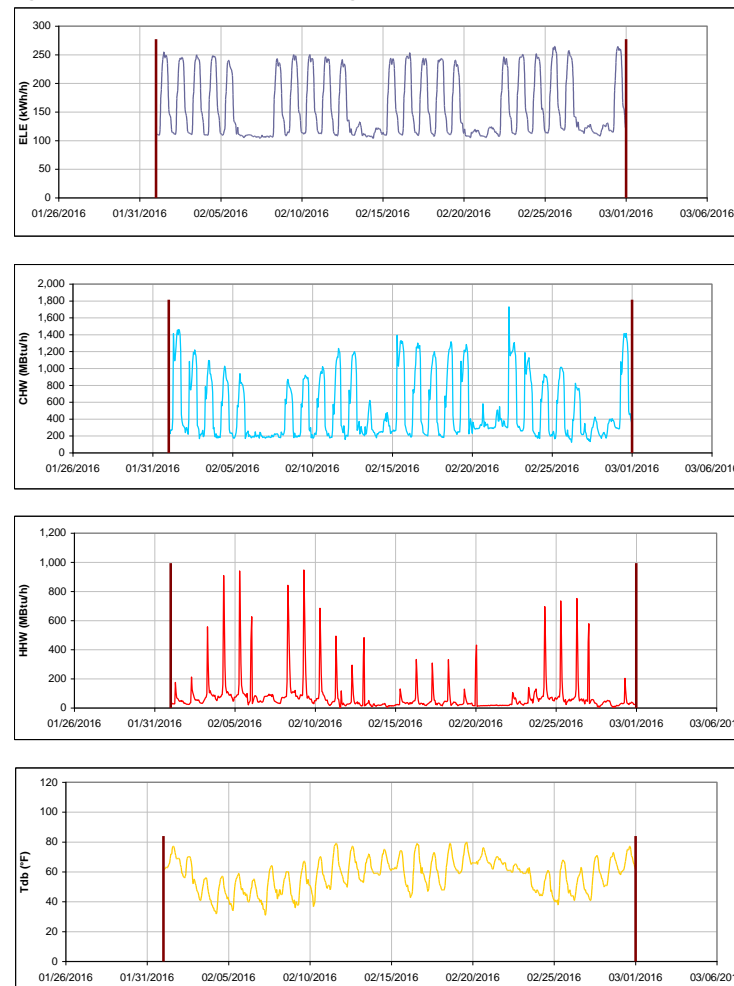


Figure III-158 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture and Life Sciences Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

AgriLife Services Building

TAMU / BLDG #: 1536

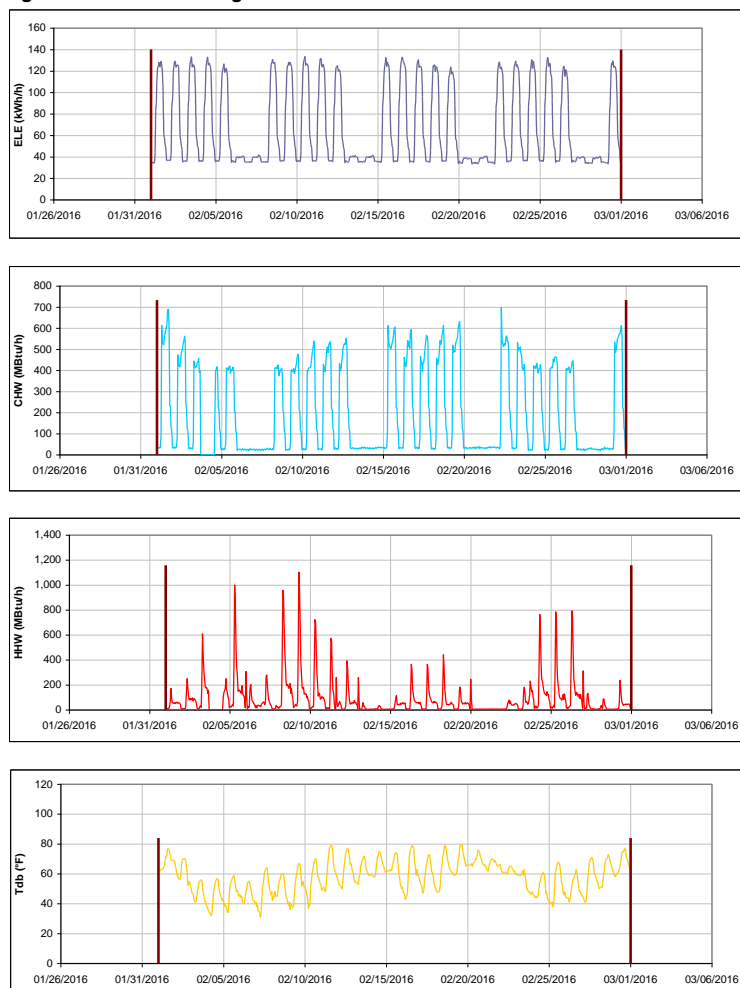


Figure III-159 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for AgriLife Services Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Agriculture Program Visitors Center

TAMU / BLDG #: 1538

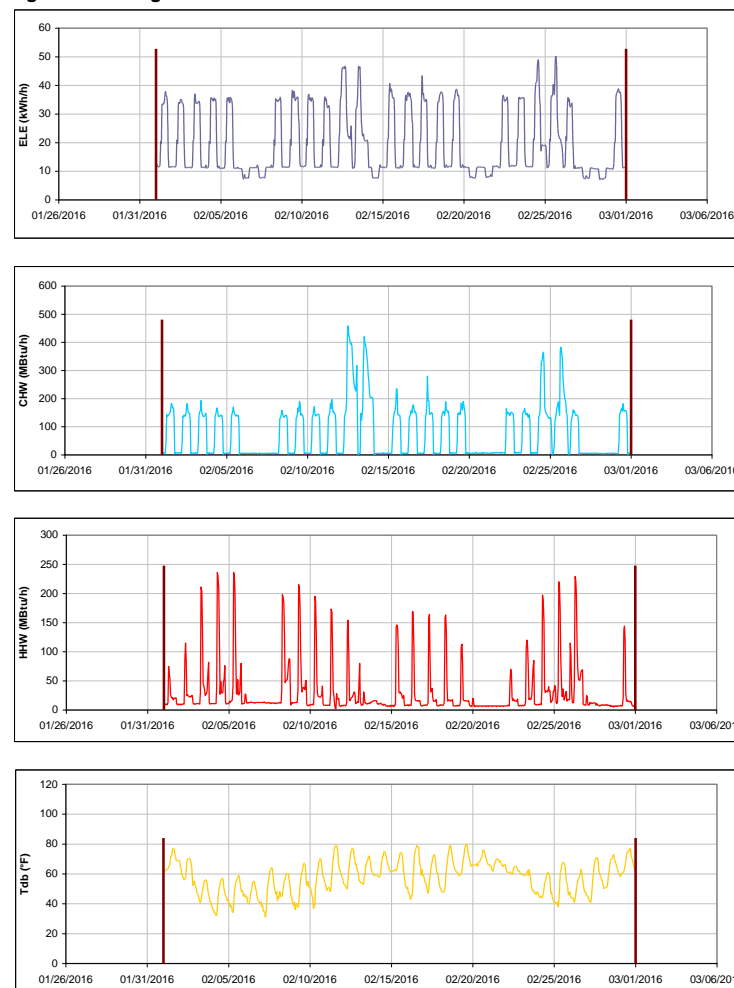


Figure III-160 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Agriculture Program Visitors Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Physical Education Activity Program Building

TAMU / BLDG #: 1540

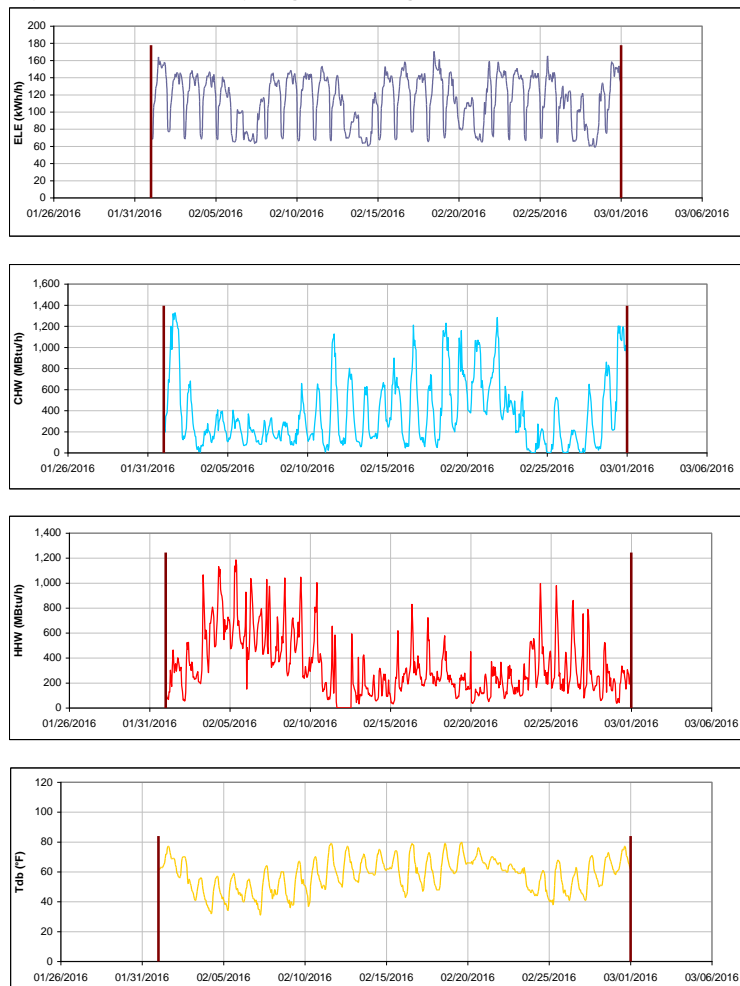


Figure III-161 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Physical Education Activity Program Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Olsen Field at Bluebell Park

TAMU / BLDG #: 1550

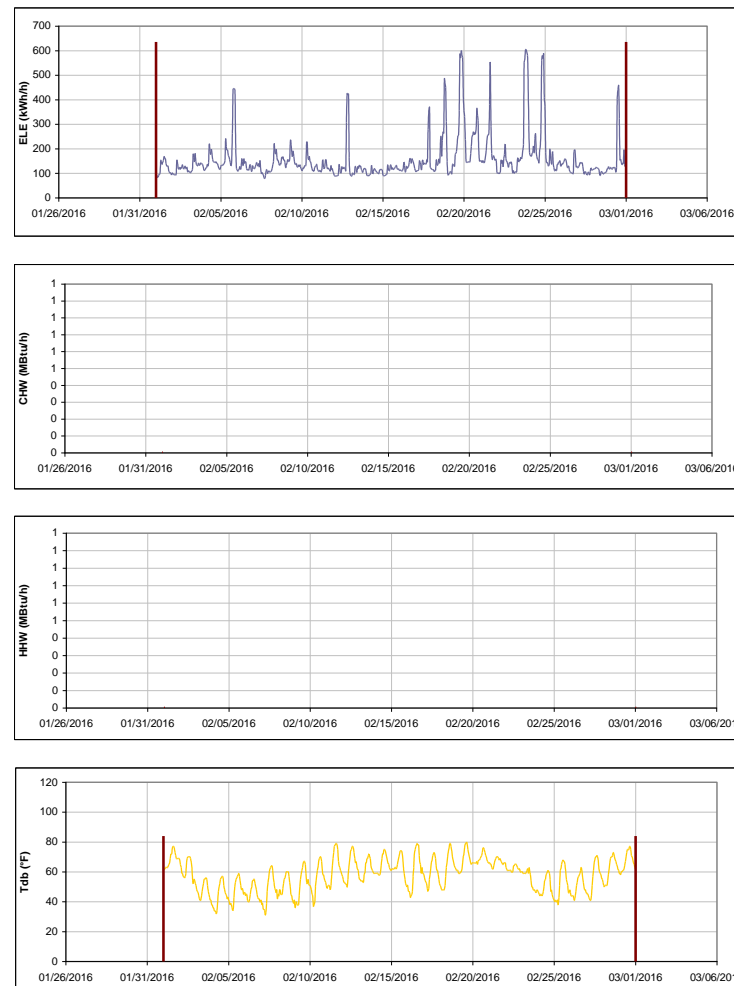


Figure III-162 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Olsen Field at Bluebell Park during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Reed Arena and Cox-McFerrin Center

TAMU / BLDG #:1554-1558

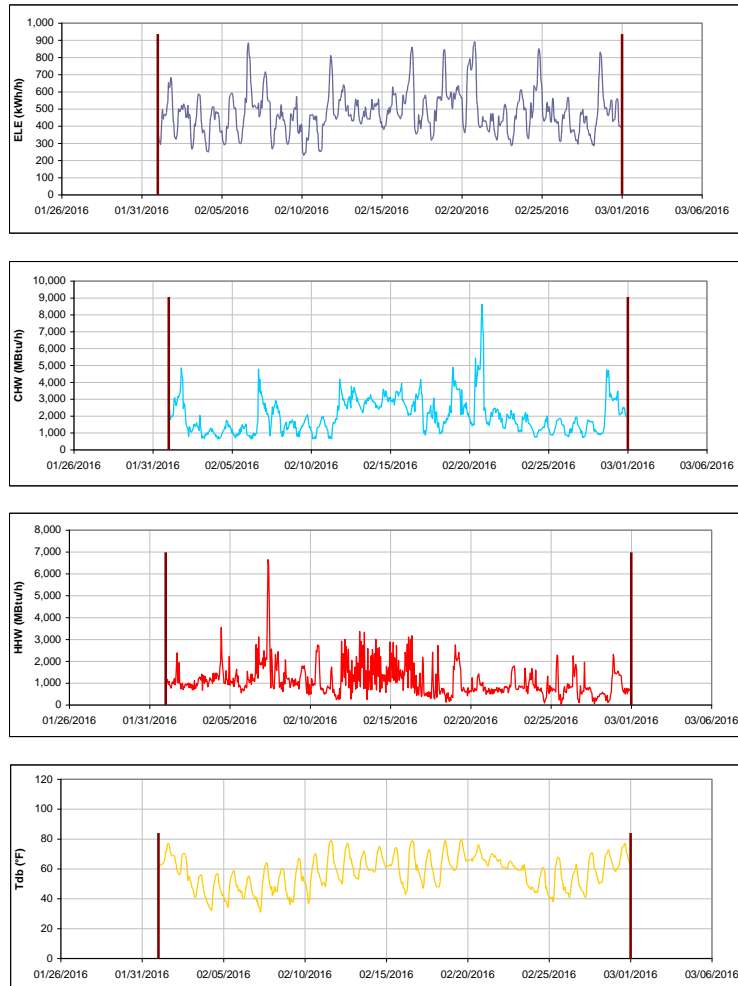


Figure III-163 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Reed Arena and Cox-McFerrin Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Cox-McFerrin Center for Aggie Basketball

TAMU / BLDG #: 1558

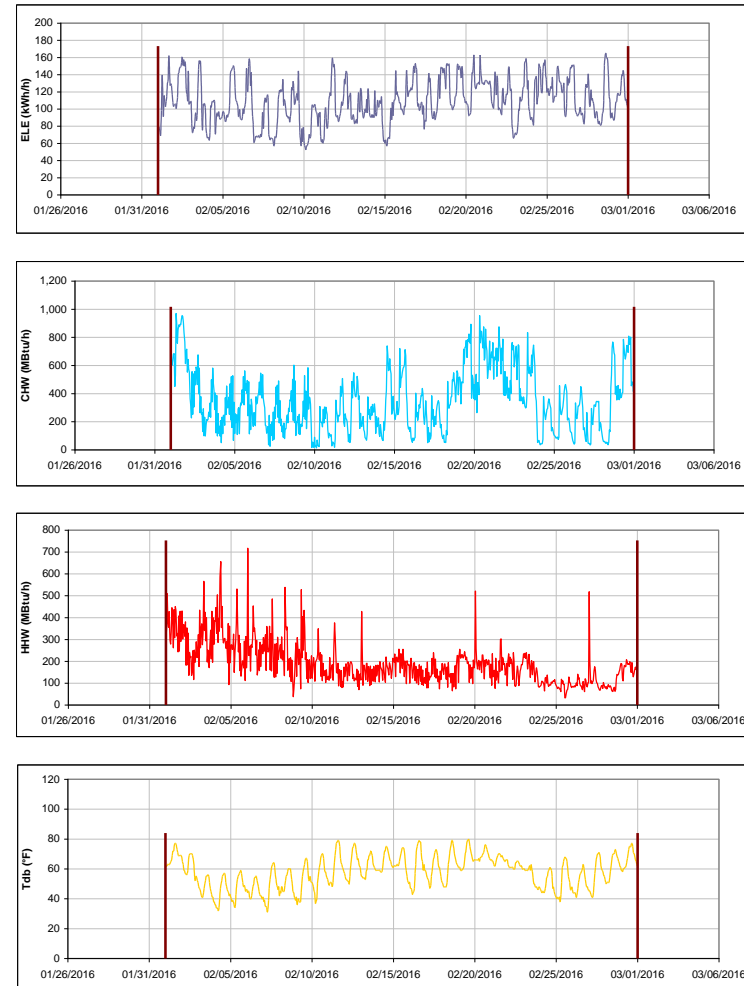


Figure III-164 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Cox-McFerrin Center for Aggie Basketball during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

West Campus Parking Garage

TAMU / BLDG #: 1559

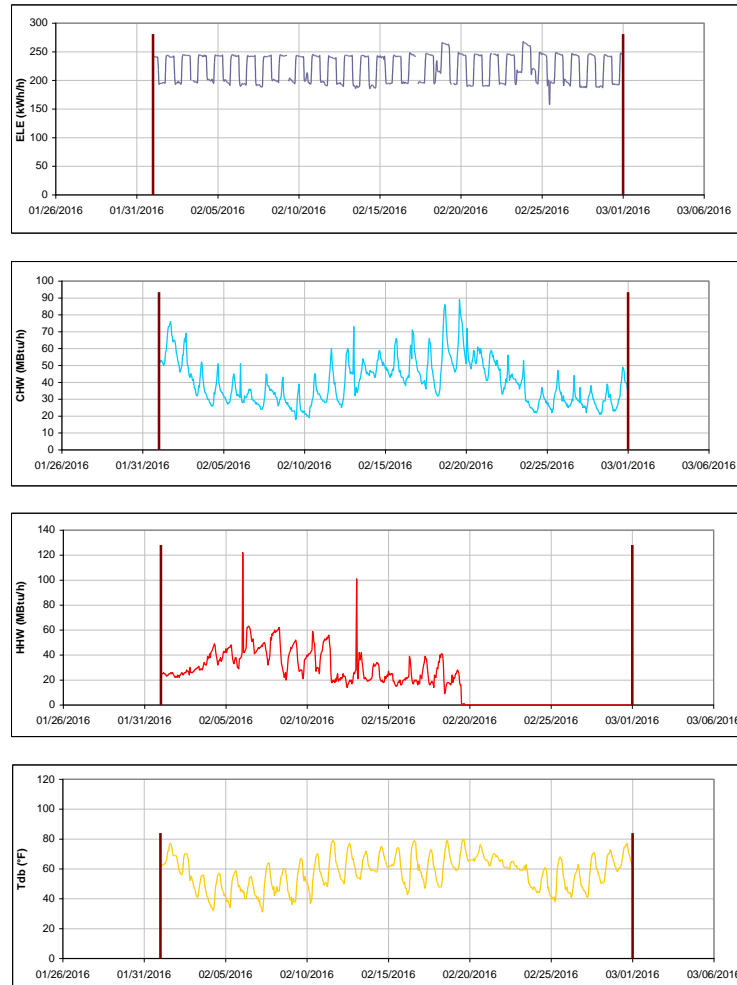


Figure III-165 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for West Campus Parking Garage during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Student Recreation Center

TAMU / BLDG #: 1560

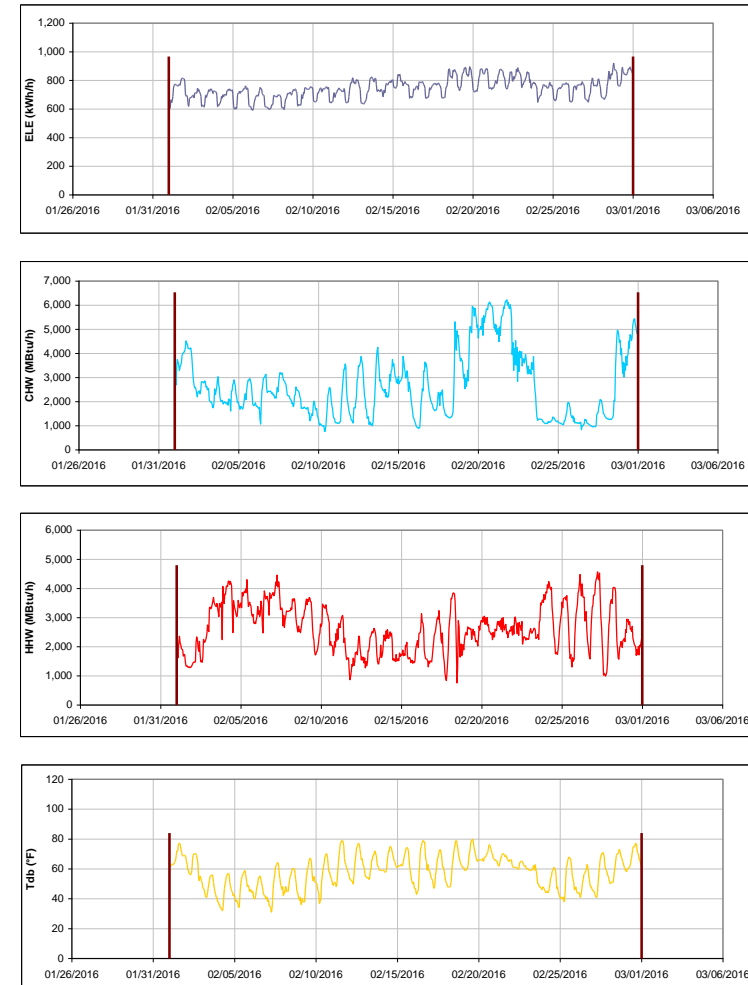


Figure III-166 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Student Recreation Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

White Creek Apartment 1

TAMU / BLDG #: 1590

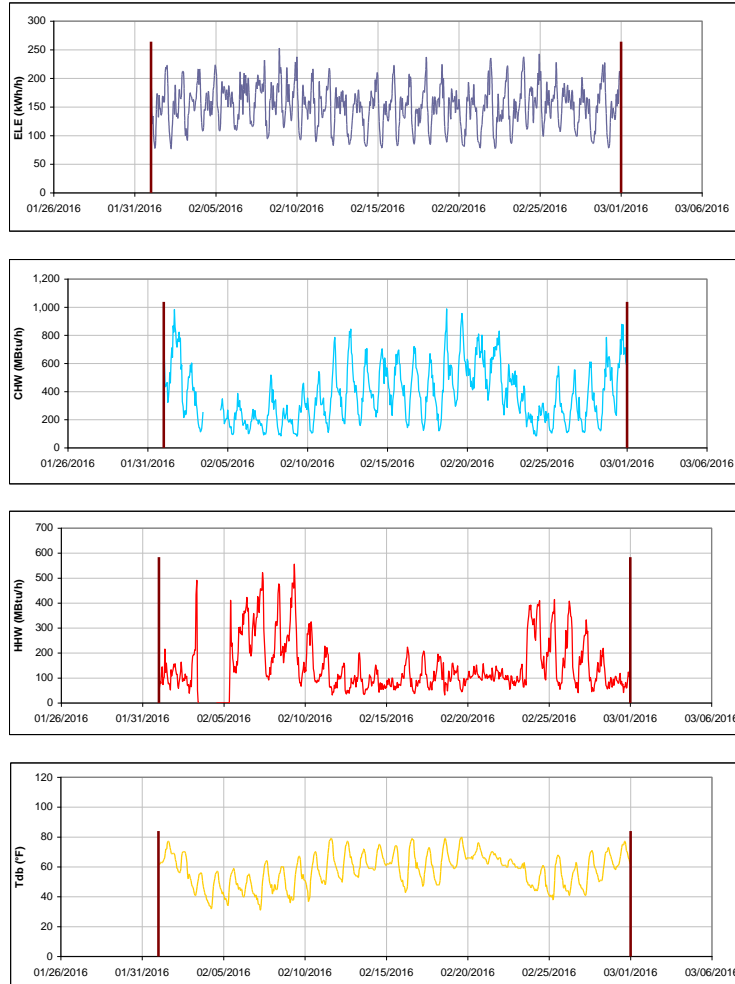


Figure III-167 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 1 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

White Creek Apartment 2

TAMU / BLDG #: 1591

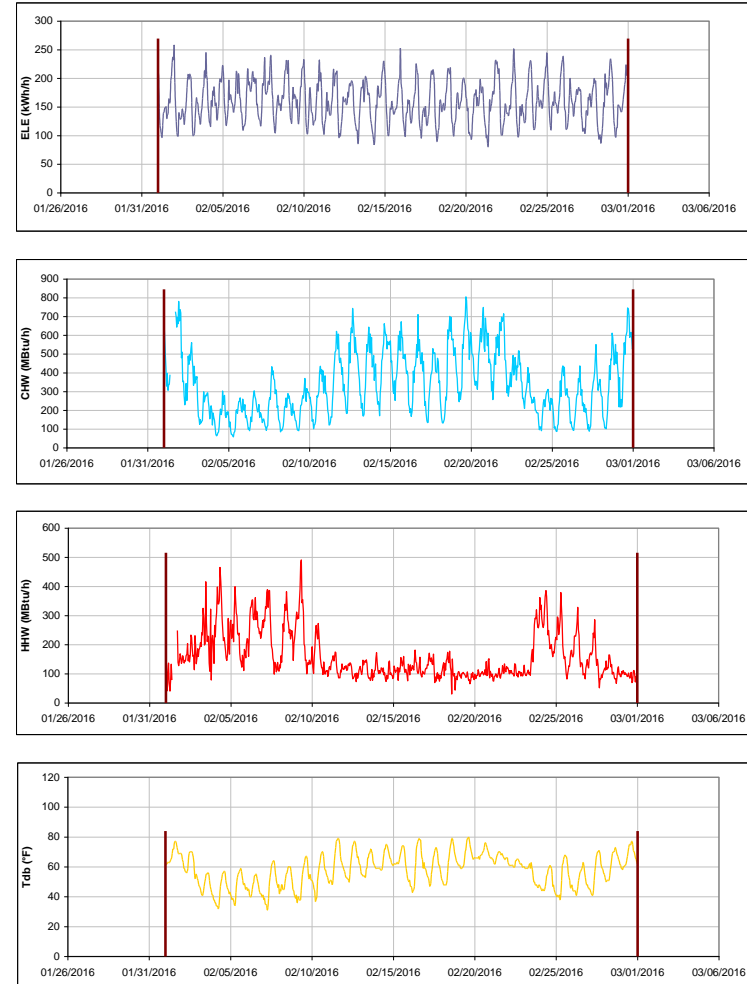


Figure III-168 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 2 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

White Creek Apartment 3

TAMU / BLDG #: 1592

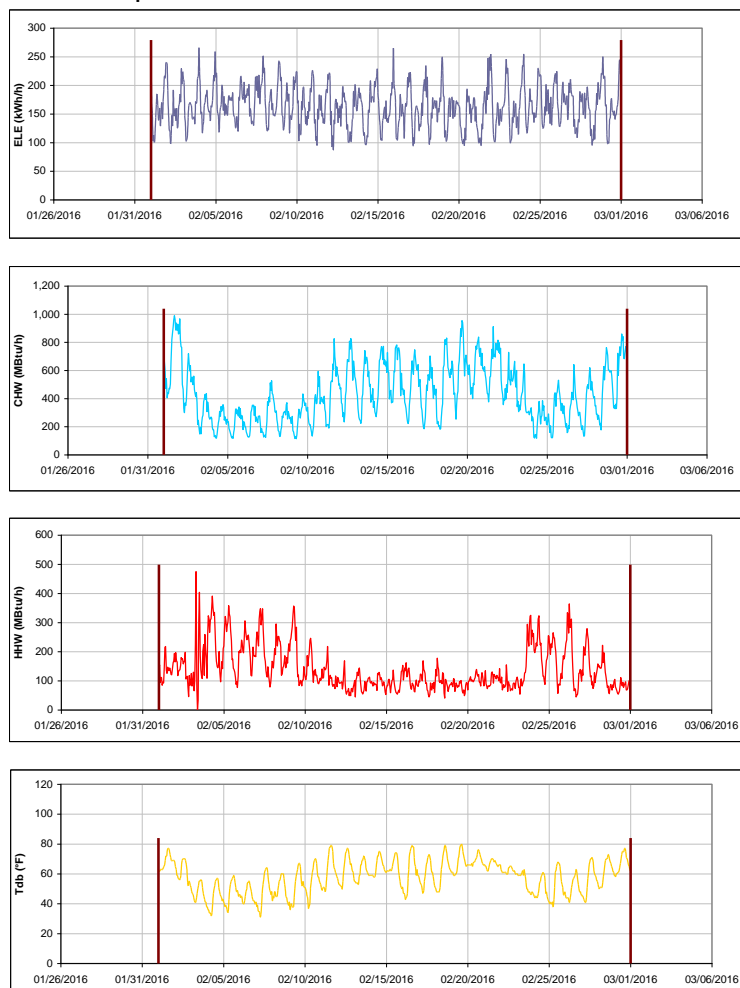


Figure III-169 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for White Creek Apartment 3 during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Gilchrist TTI Building

TAMU / BLDG #: 1600

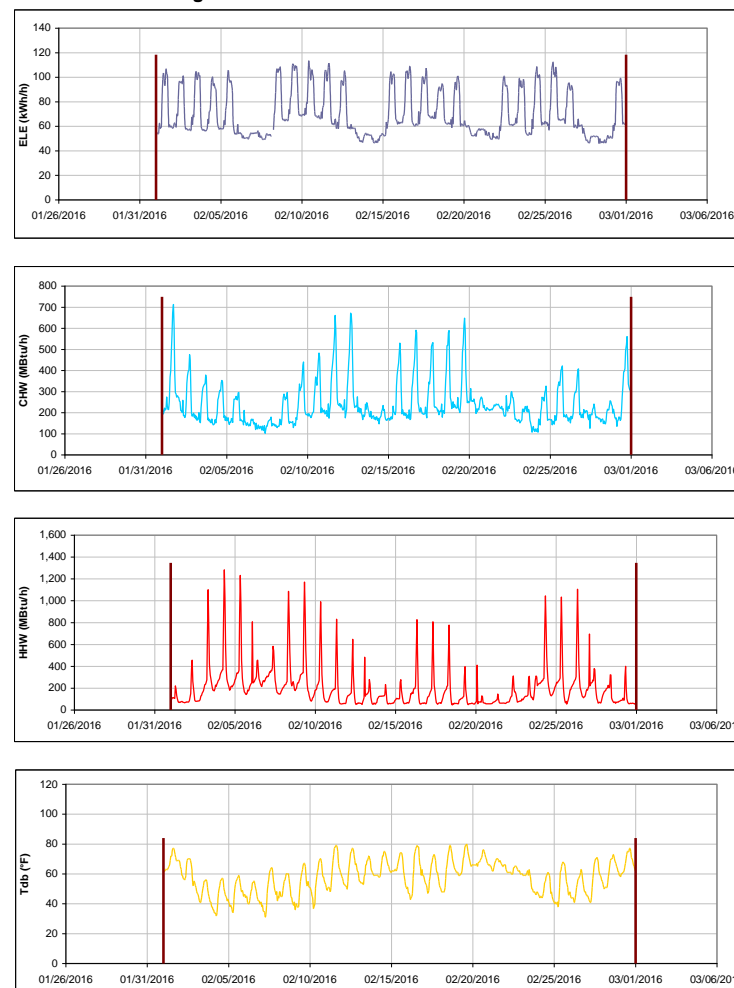


Figure III-170 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Gilchrist TTI Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

International Ocean Discovery Building

TAMU / BLDG #: 1601

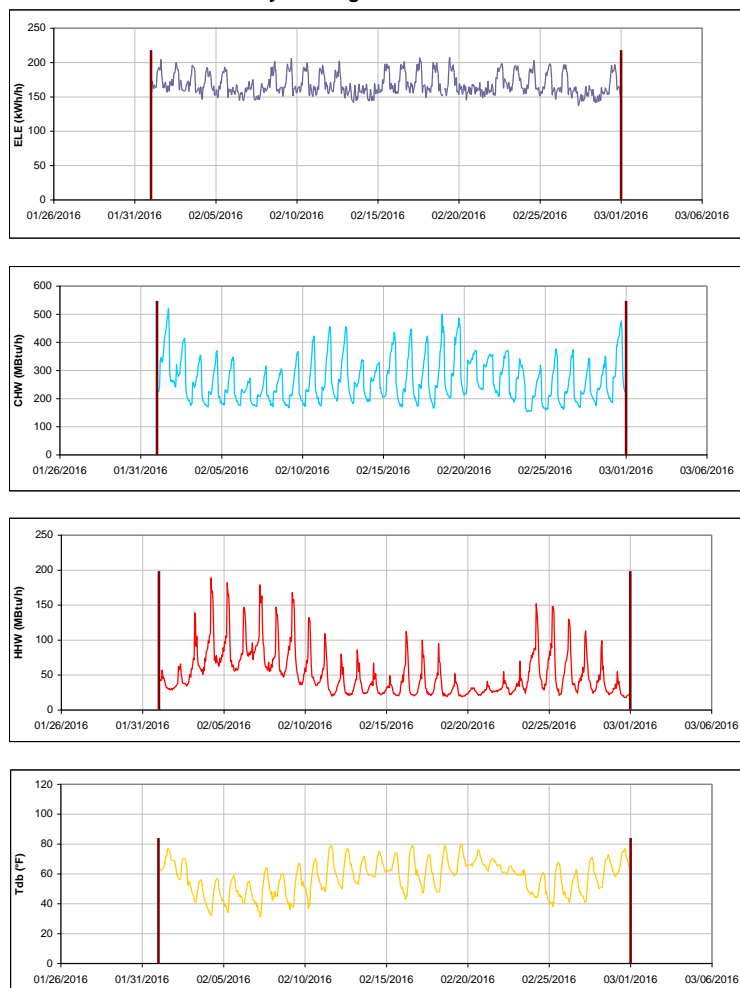


Figure III-171 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for International Ocean Discovery Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Offshore Technology Research Center

TAMU / BLDG #: 1604

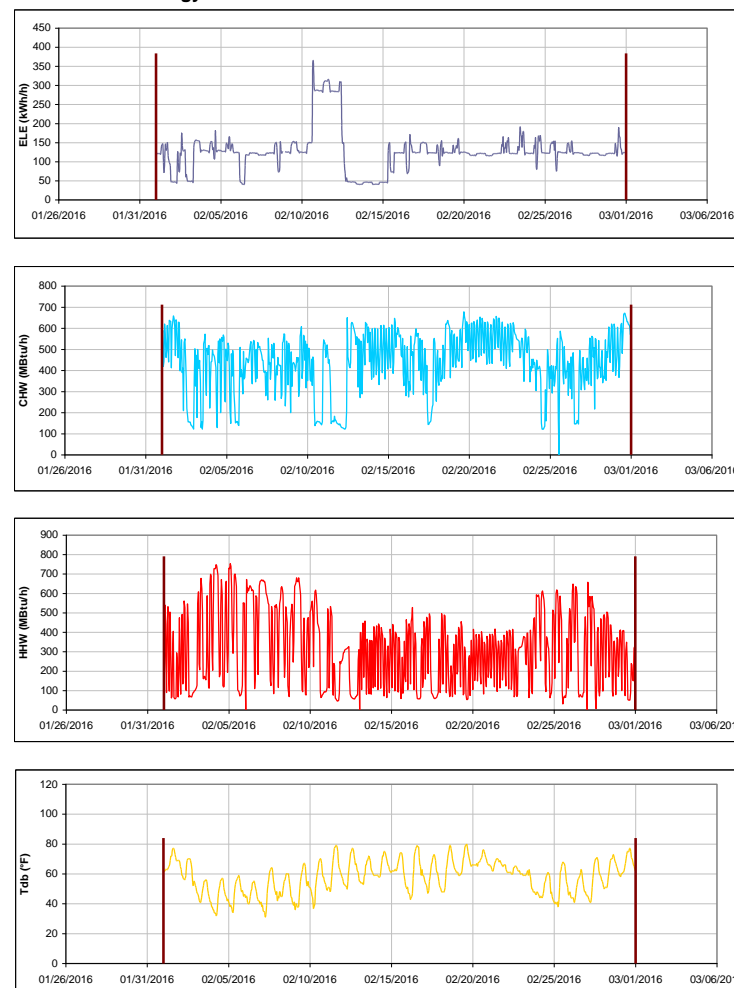


Figure III-172 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Offshore Technology Research Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

George Bush Presidential Library & Museum

TAMU / BLDG #: 1606

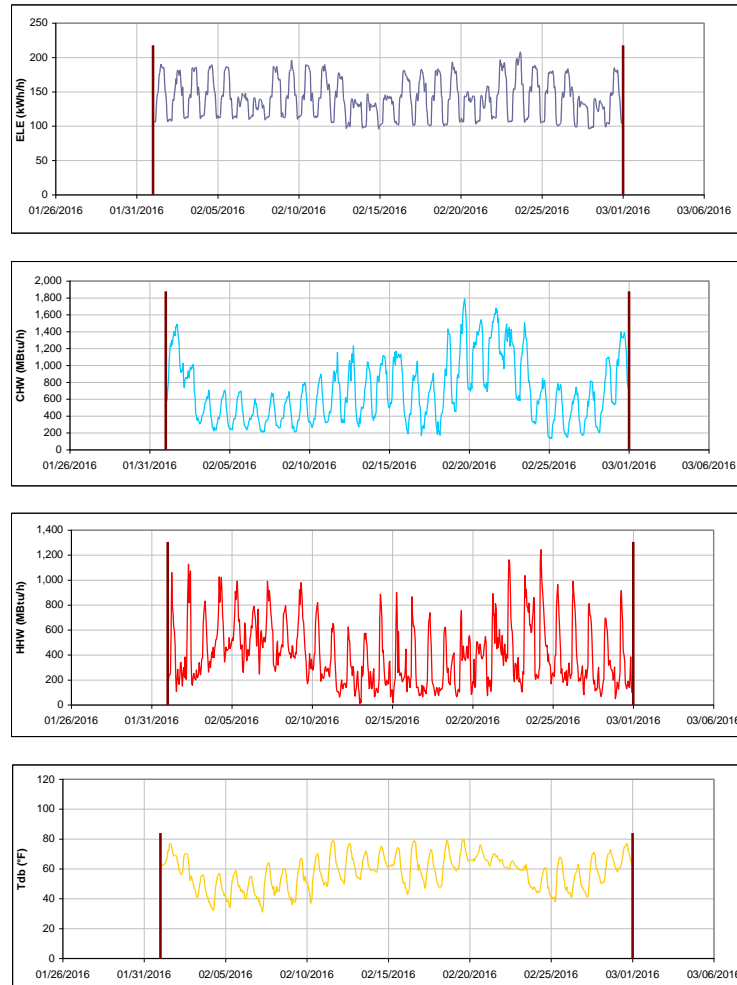


Figure III-173 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for George Bush Presidential Library & Museum during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Allen Building

TAMU / BLDG #: 1607

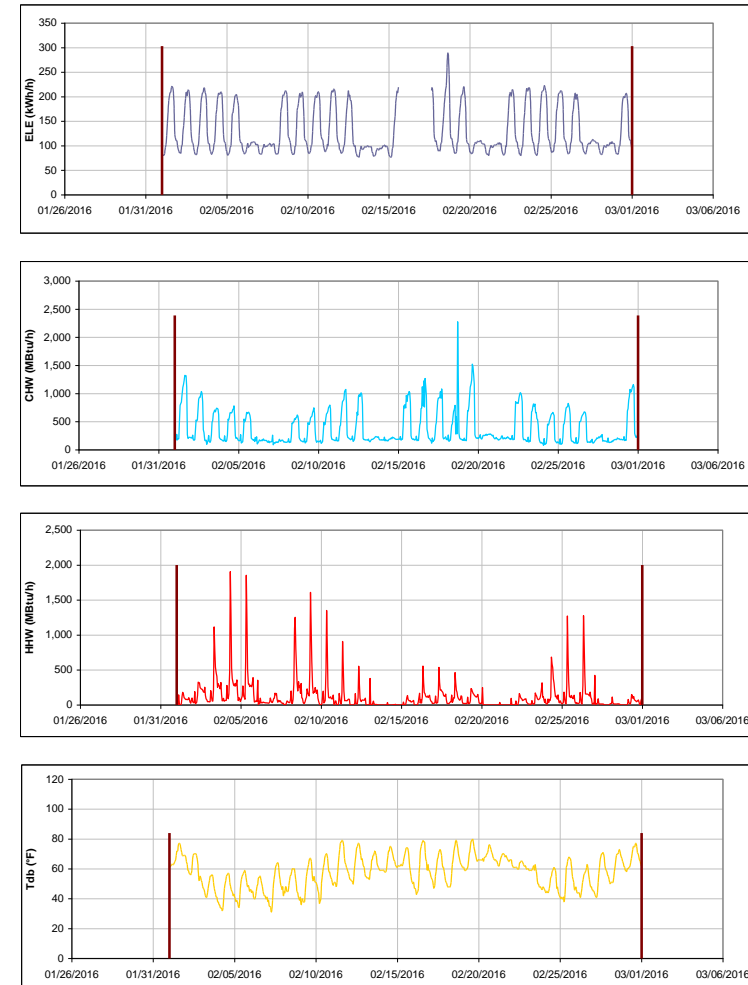


Figure III-174 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Allen Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Annenberg Presidential Conference Center

TAMU / BLDG #: 1608

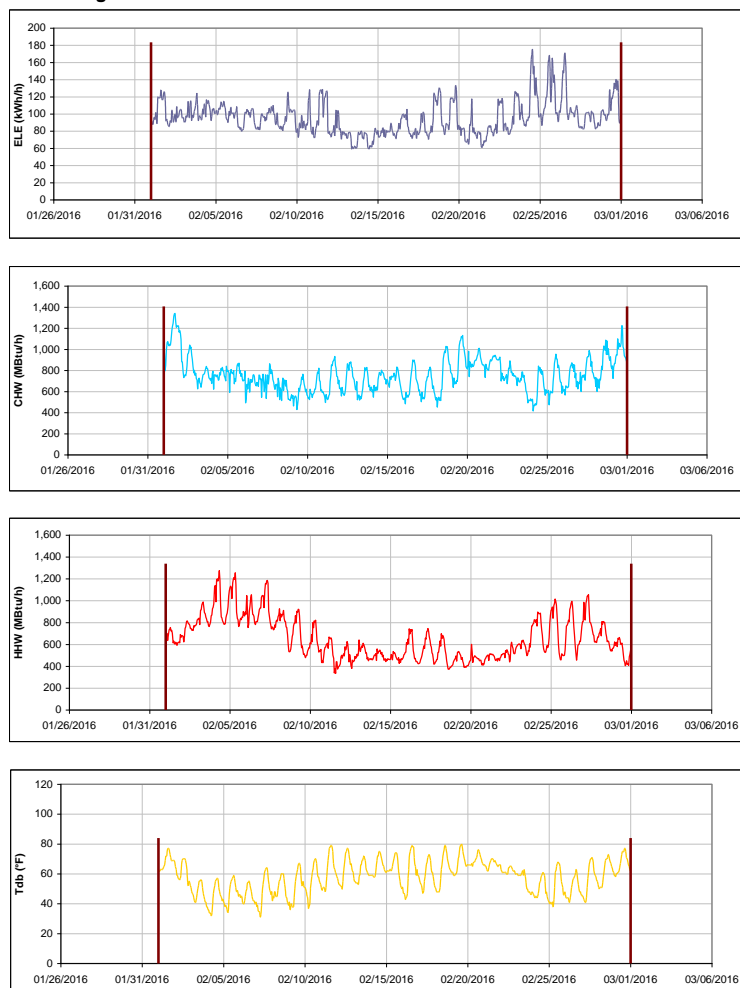


Figure III-175 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Annenberg Presidential Conference Center during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

TTI Headquarters

TAMU / BLDG #: 1609

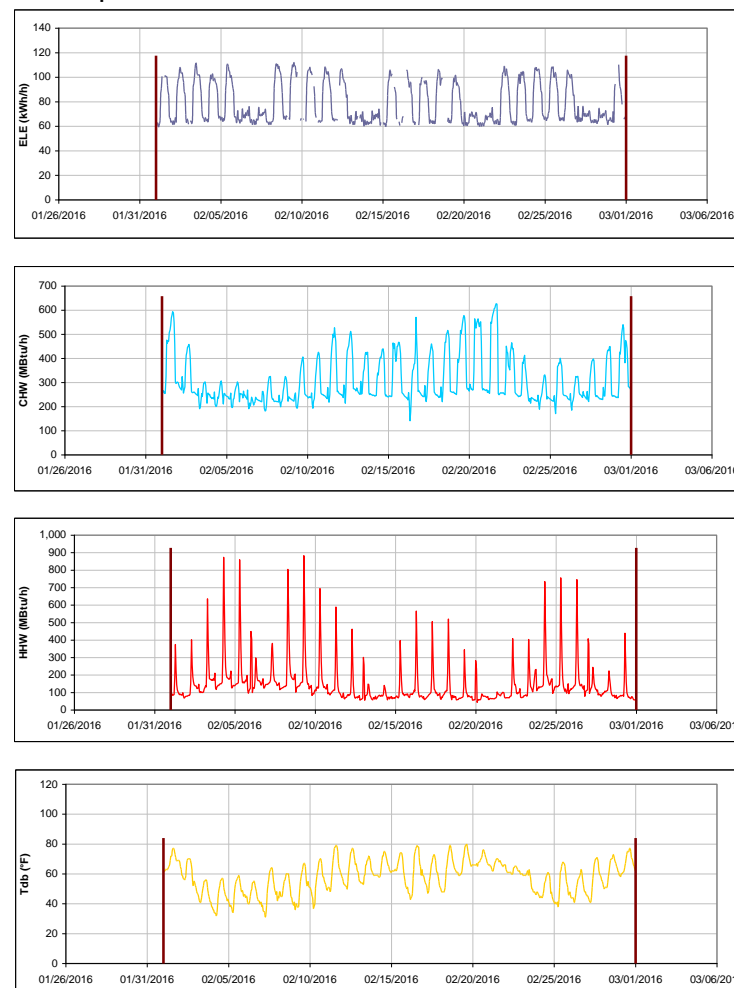


Figure III-176 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for TTI Headquarters during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Engineering Research Building

TAMU / BLDG #: 1611

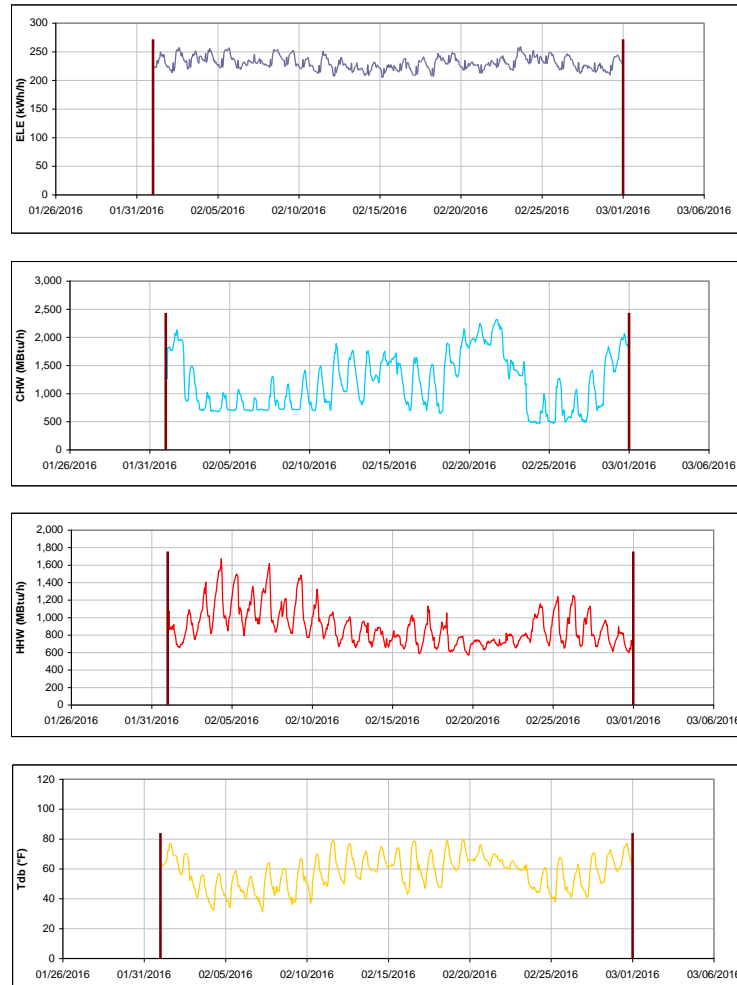


Figure III-177 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Engineering Research Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

General Services Complex

TAMU / BLDG #: 1800

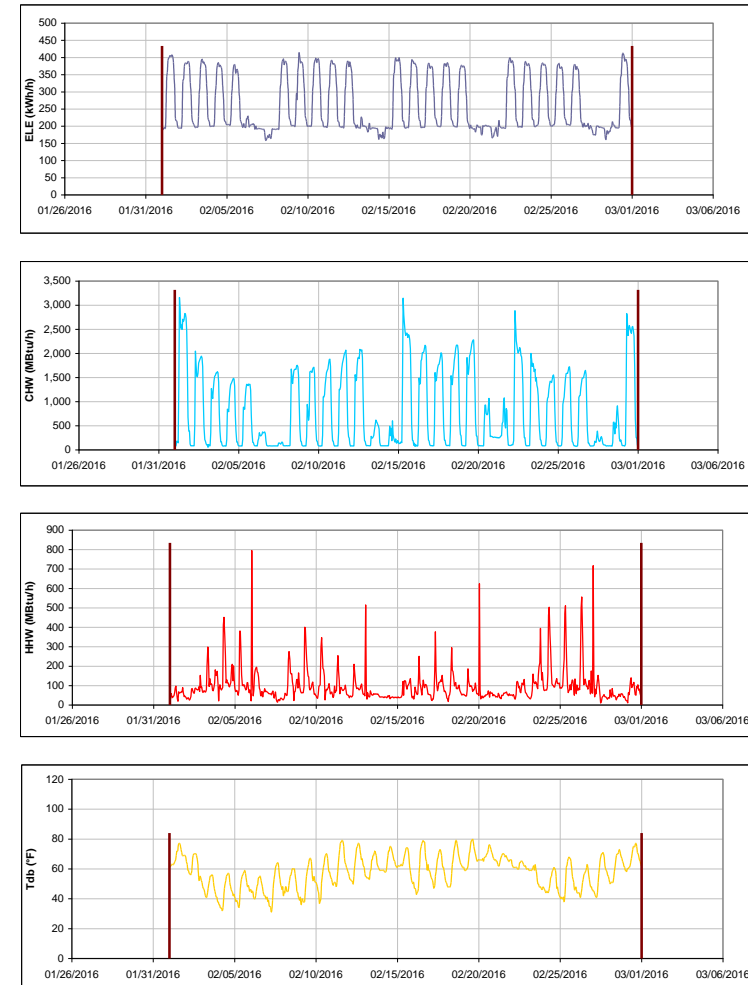


Figure III-178 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for General Services Complex during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Office of the State Chemist Building

TAMU / BLDG #: 1810

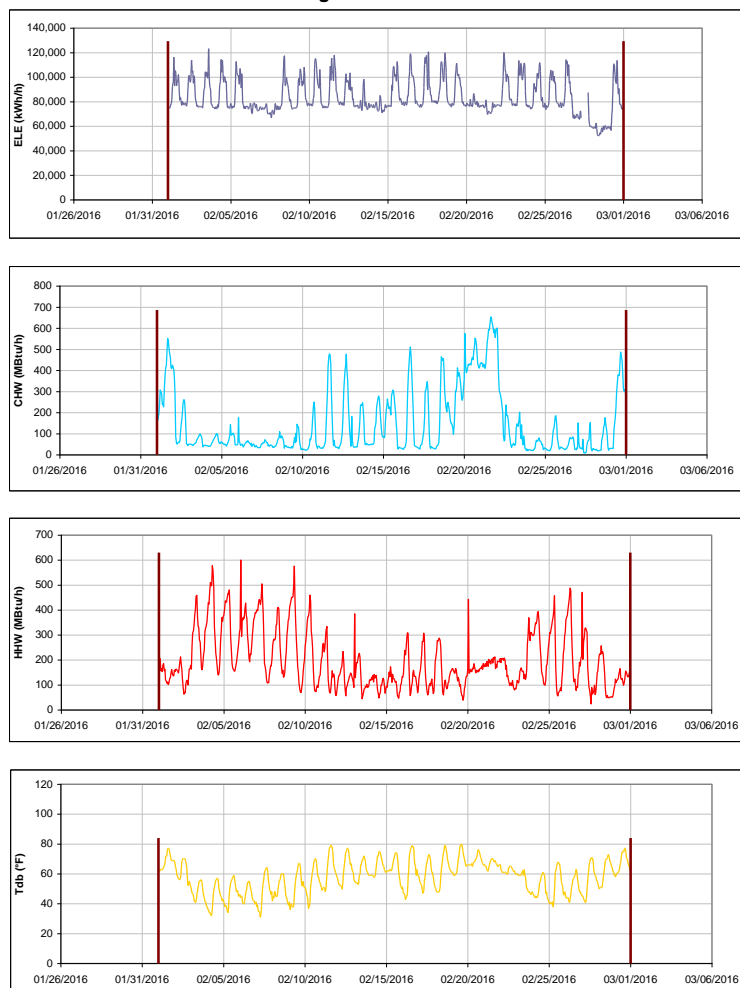


Figure III-179 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Office of the State Chemist Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Vet Med Research Bldg Addition

TAMU / BLDG #: 1811

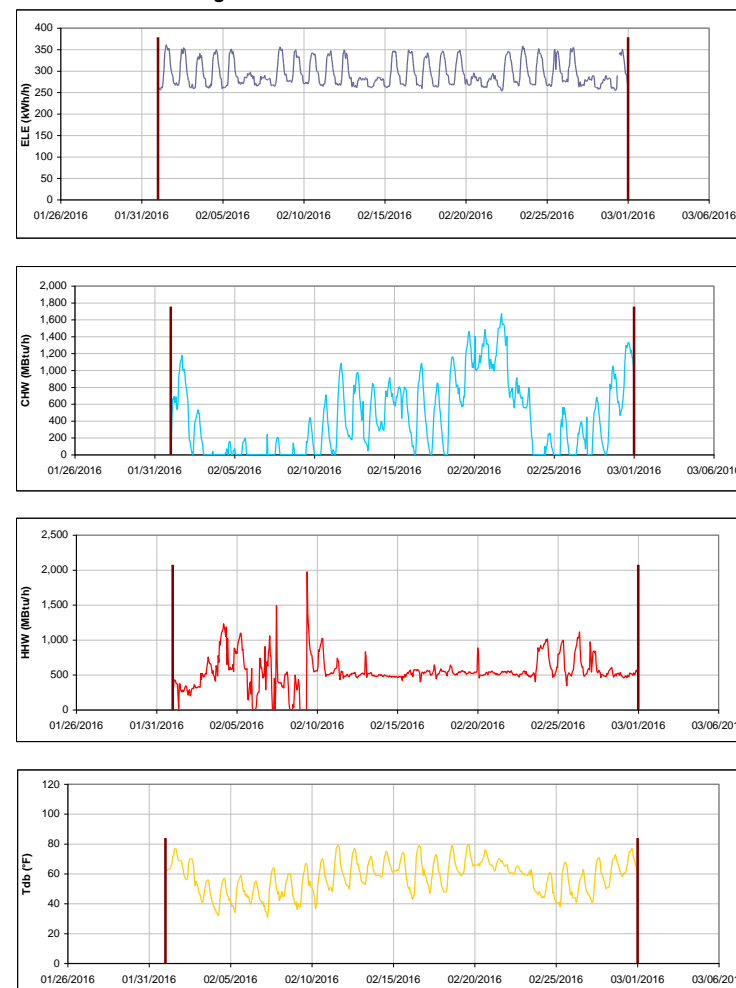


Figure III-180 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Vet Med Research Bldg Addition during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Texas Institute for Genomic Medicine

TAMU / BLDG #: 1900

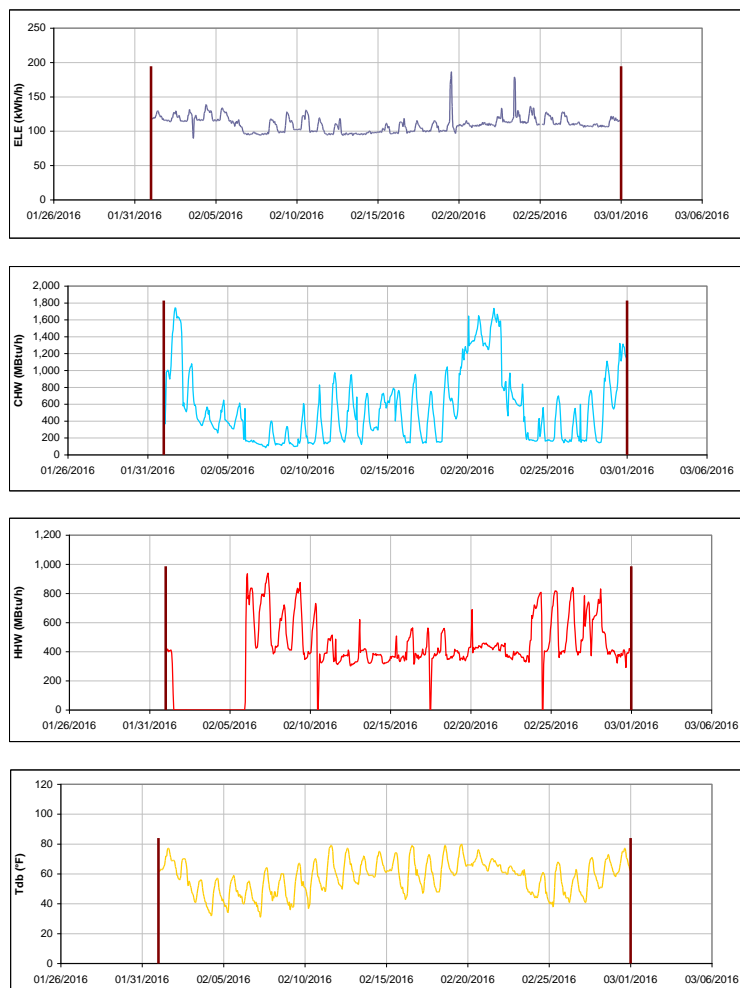


Figure III-181 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas Institute for Genomic Medicine during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Texas A&M Institute for Preclinical Studies A

TAMU / BLDG #: 1904



Figure III-182 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Texas A&M Institute for Preclinical Studies A during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

National Center for Therapeutics Manufacturing

TAMU / BLDG #: 1910

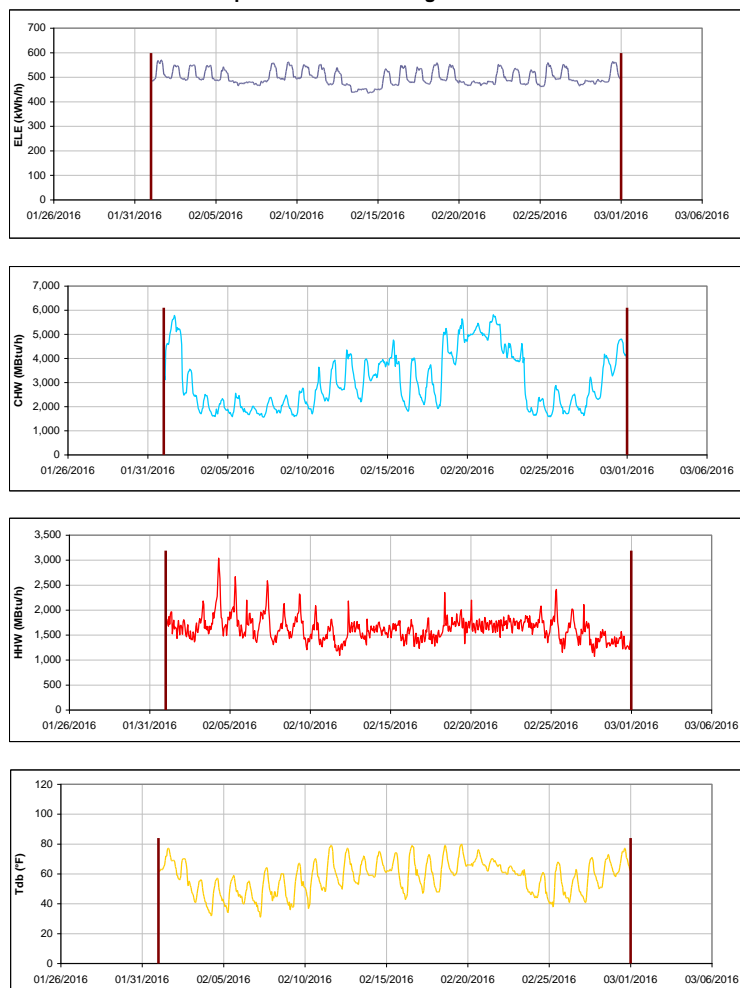


Figure III-183 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for National Center for Therapeutics Manufacturing during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

Multi-Species Research Building

TAMU / BLDG #: 1911

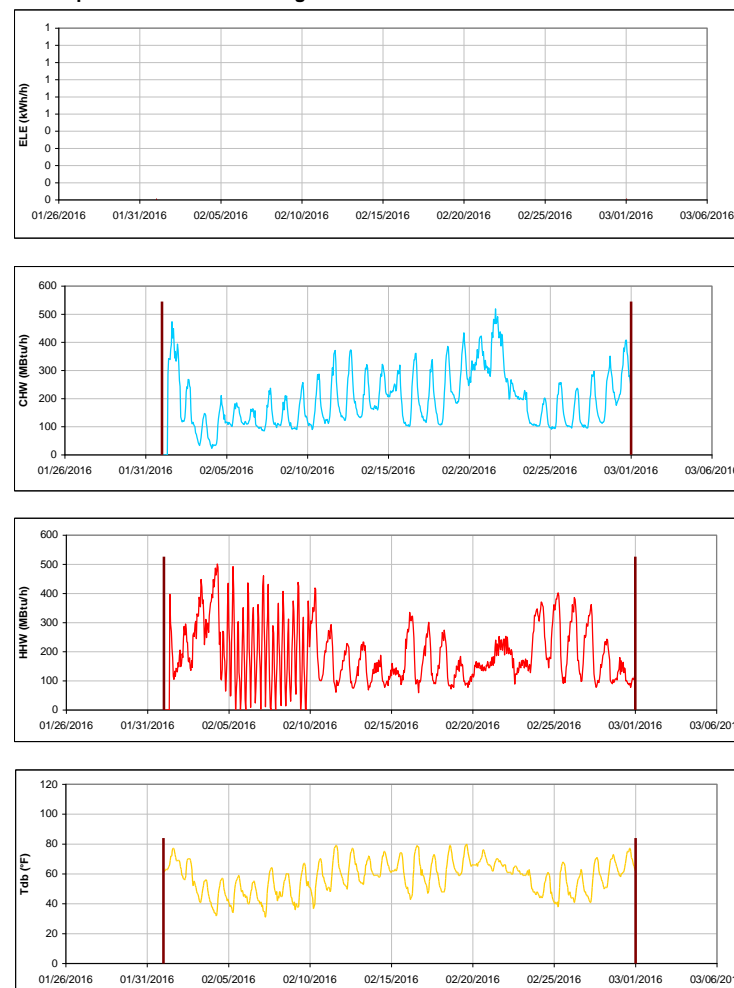


Figure III-184 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for Multi-Species Research Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

NCTM Manufacturing Building

TAMU / BLDG #: 10226

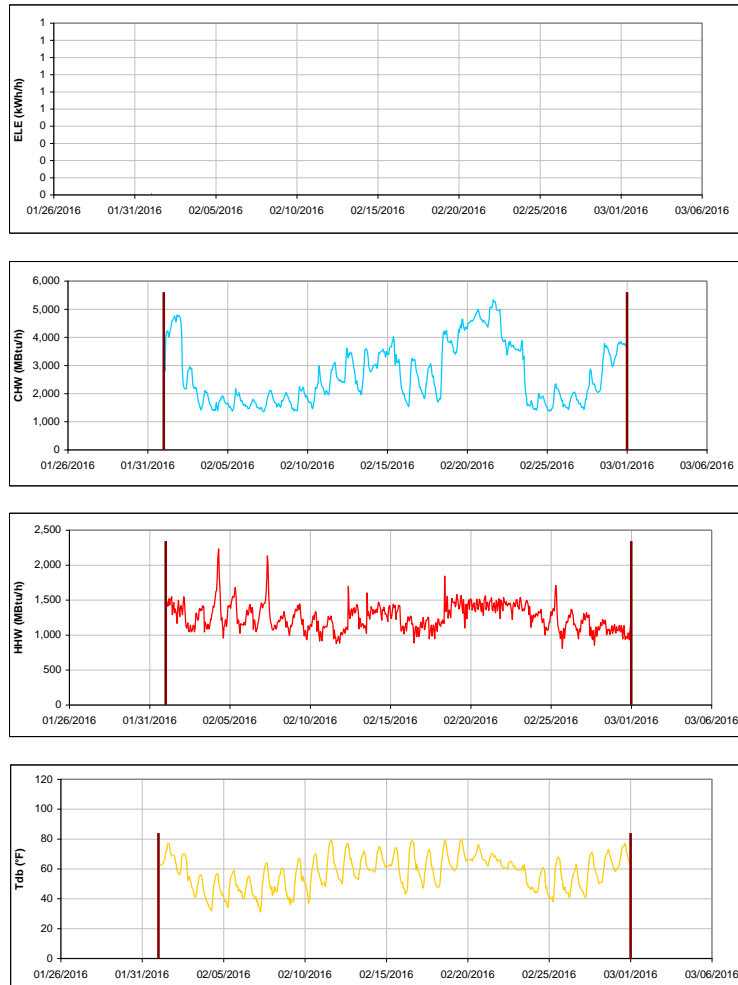


Figure III-185 Hourly Whole Building Electricity, Chilled Water, and Hot Water Consumption for NCTM Manufacturing Building during the Month of TSPlots and the Corresponding Hourly Outdoor Dry Bulb Temperature for College Station, TX

IV. Energy Balance Plots for February 2016 Consumption

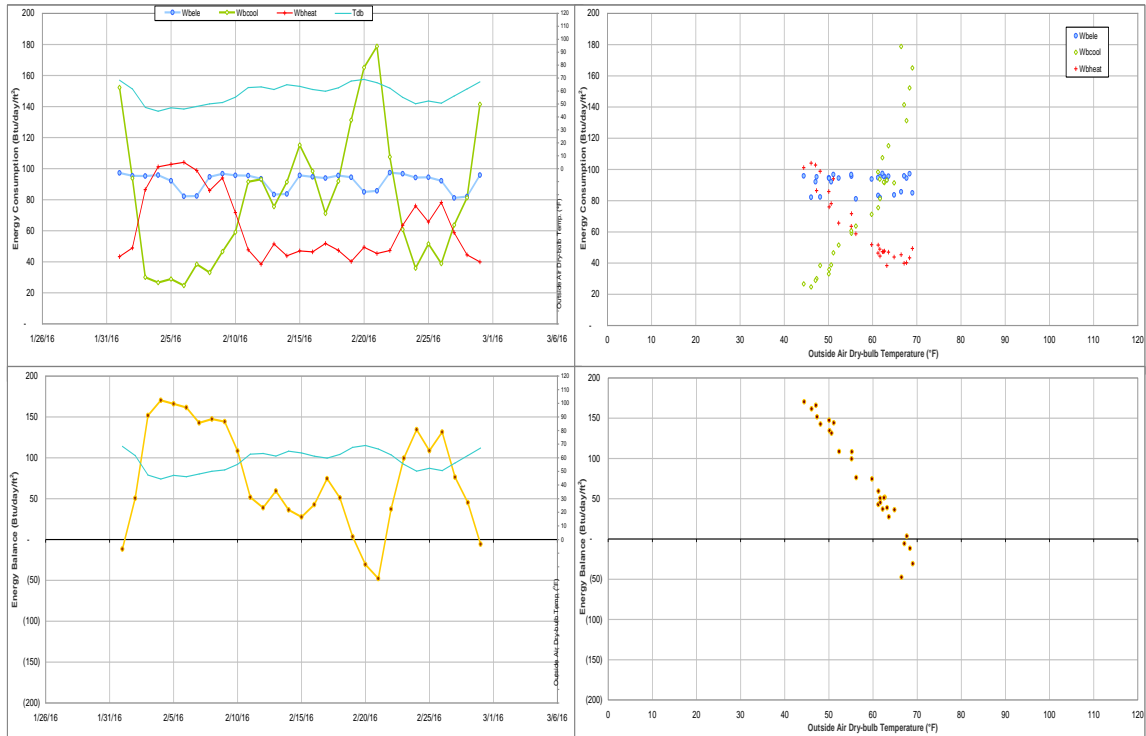


Figure IV-1 Emerging Technologies Building TAMU BLDG # 270 Energy Balance Plot during February 2016

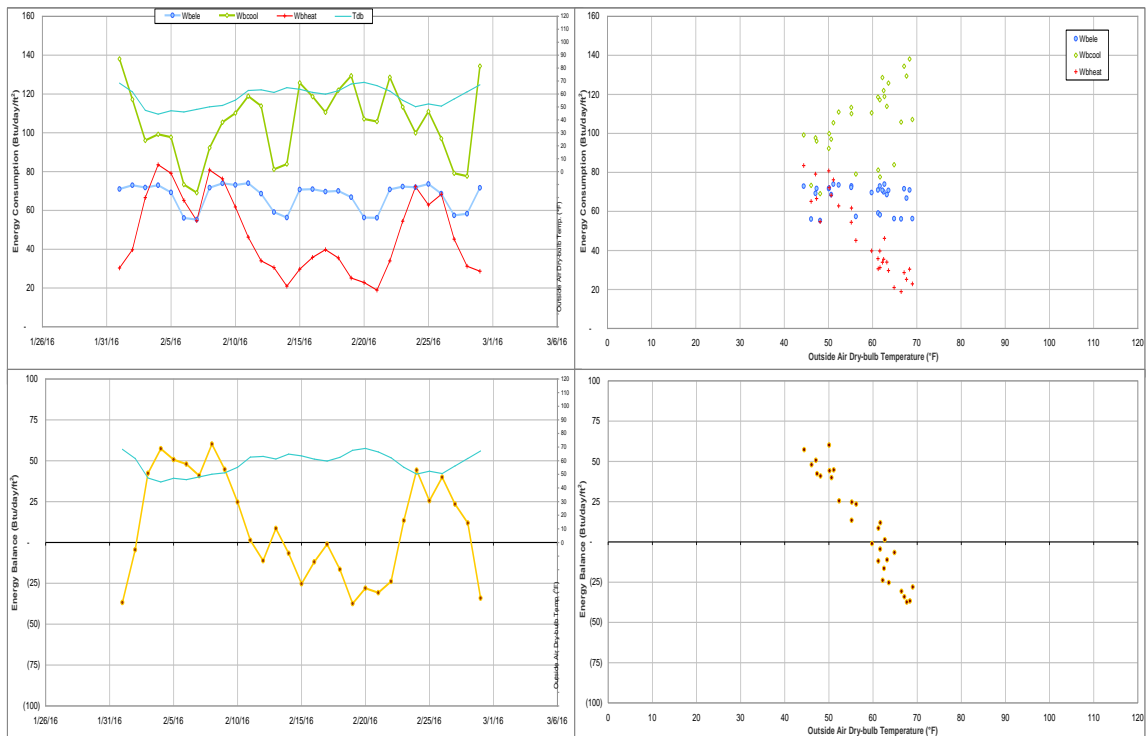


Figure IV-2 Liberal Arts and Arts & Humanities Building TAMU BLDG # 275 Energy Balance Plot during February 2016

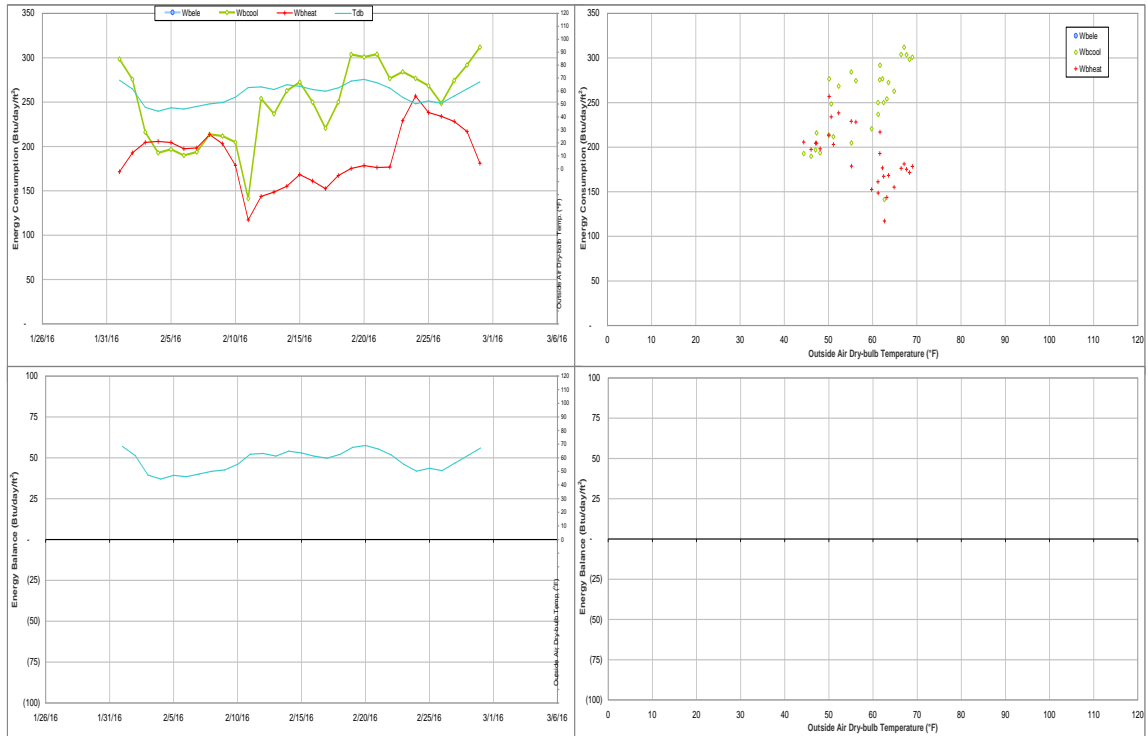


Figure IV-3 Wells Residence Hall TAMU BLDG # 290 Energy Balance Plot during February 2016

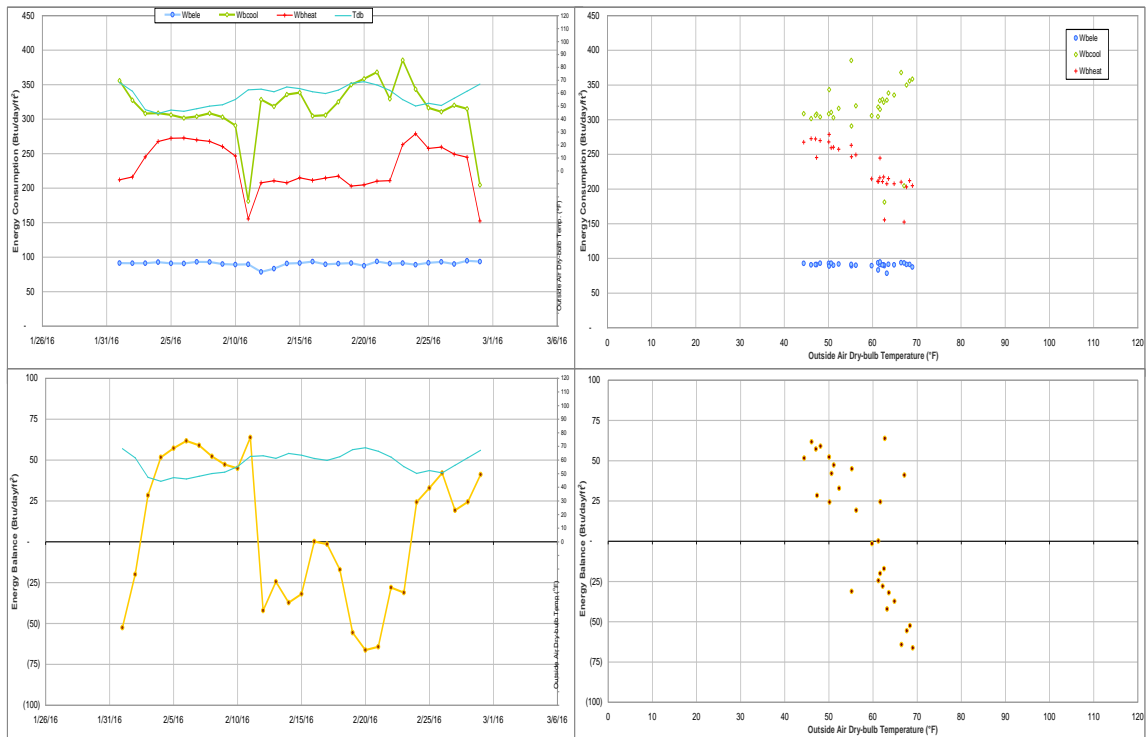


Figure IV-4 Rudder Residence Hall TAMU BLDG # 291 Energy Balance Plot during February 2016

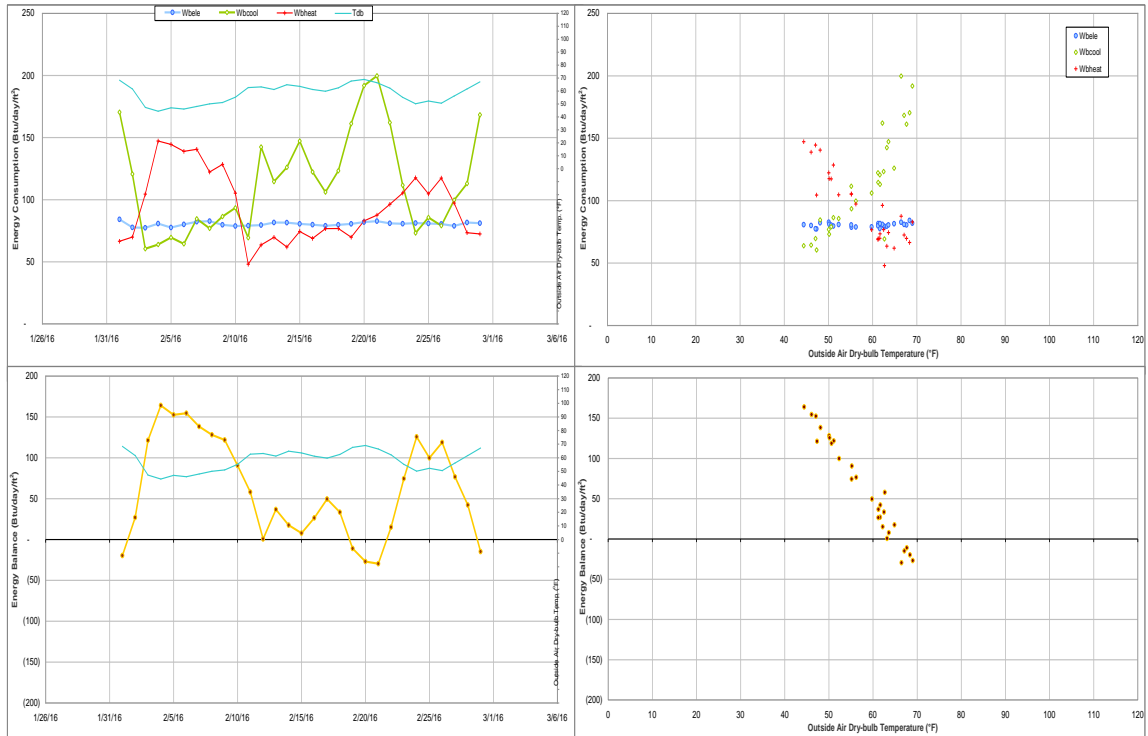


Figure IV-5 Eppright Residence Hall TAMU BLDG # 292 Energy Balance Plot during February 2016

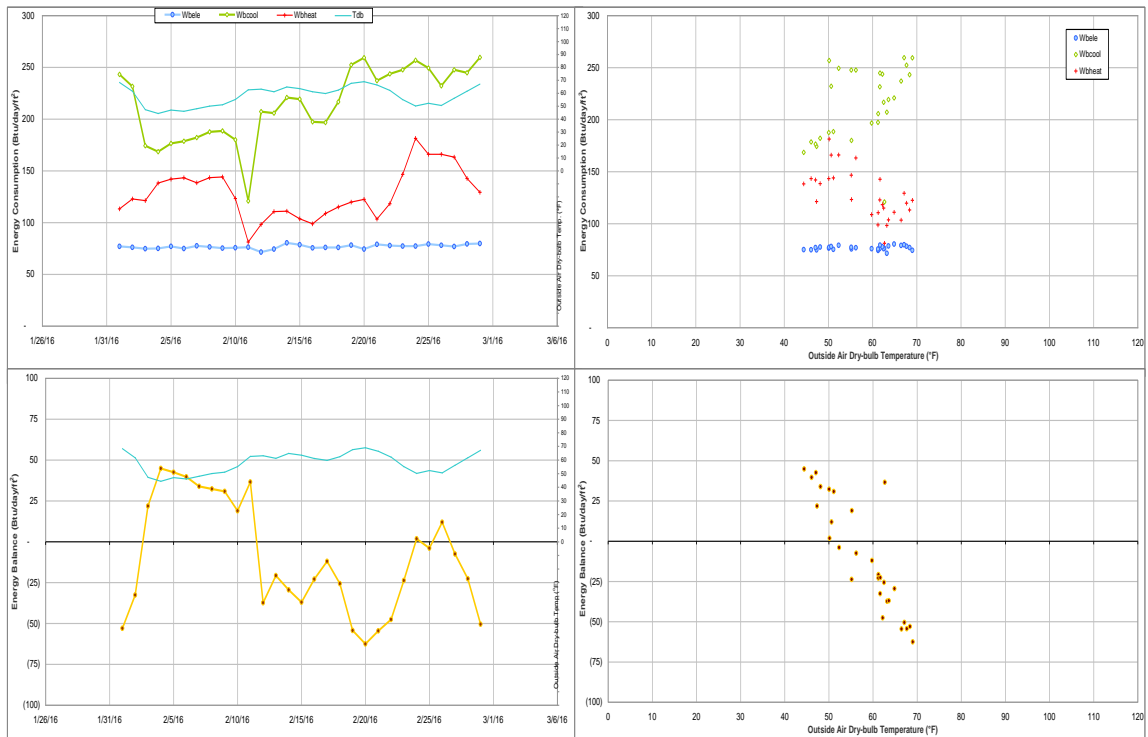


Figure IV-6 Appelt Residence Hall TAMU BLDG # 293 Energy Balance Plot during February 2016

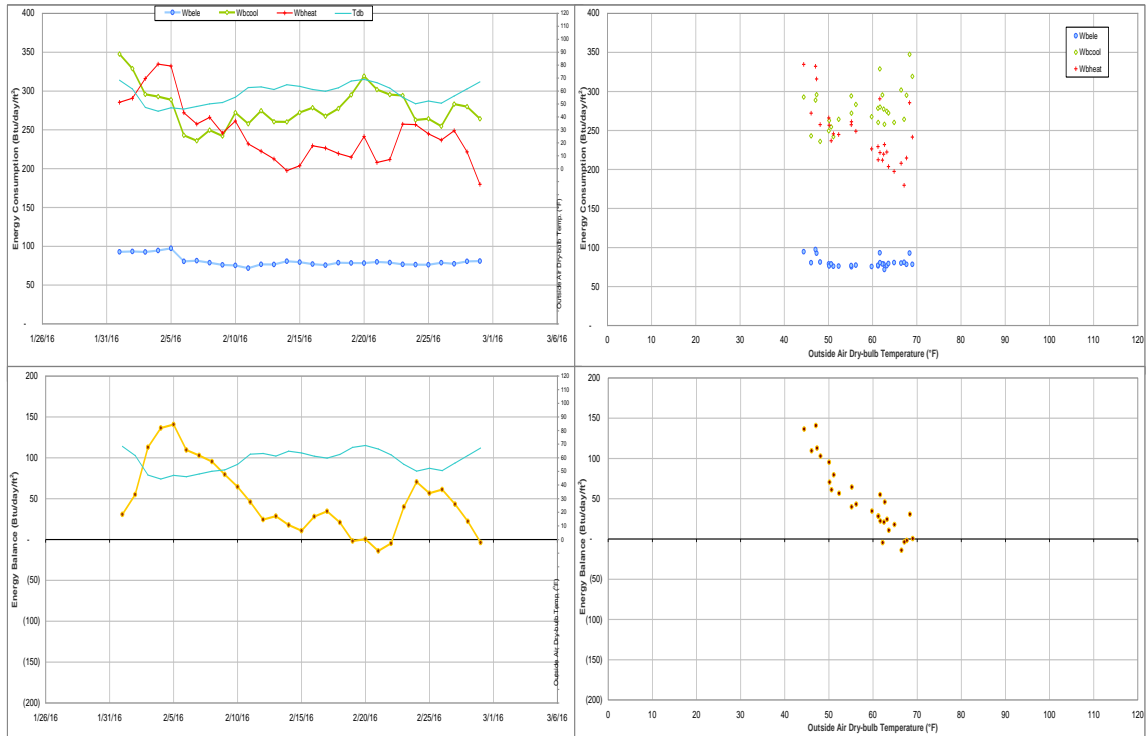


Figure IV-7 Lechner Residence Hall TAMU BLDG # 294 Energy Balance Plot during February 2016

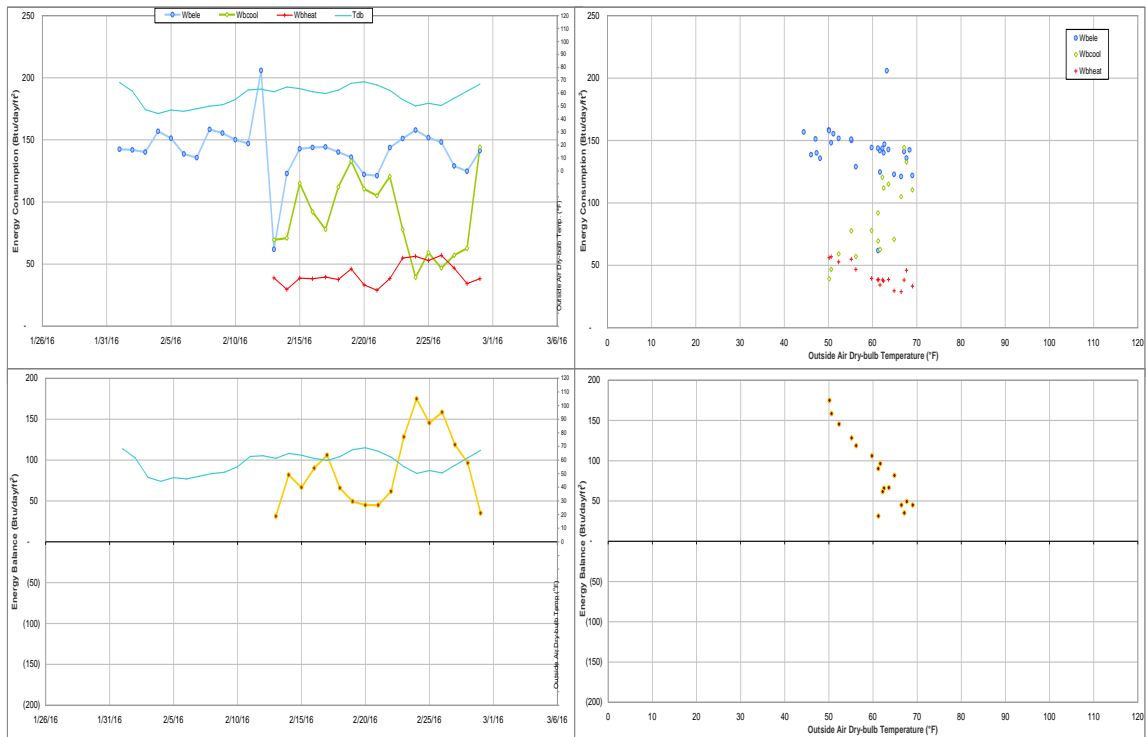


Figure IV-8 Mitchell Inst. for Fundamental Phys & Astronomy TAMU BLDG # 296 Energy Balance Plot during February 2016

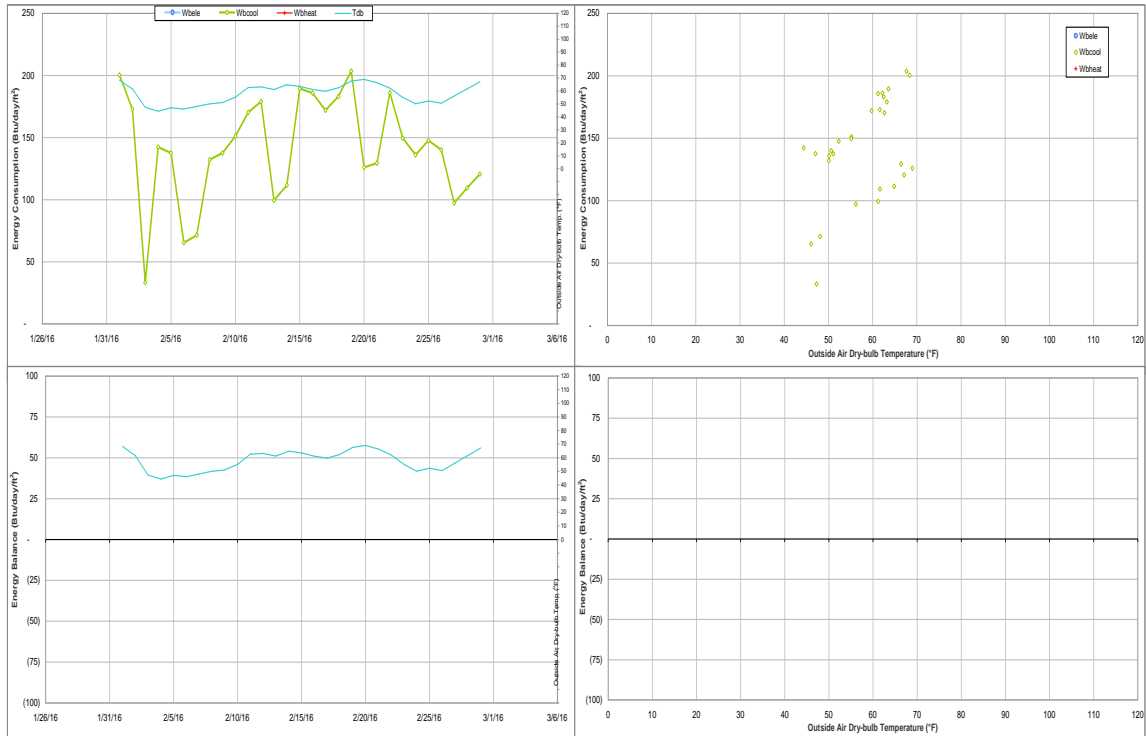


Figure IV-9 CE TTI Office & Lab Building TAMU BLDG # 325-385 Energy Balance Plot during February 2016

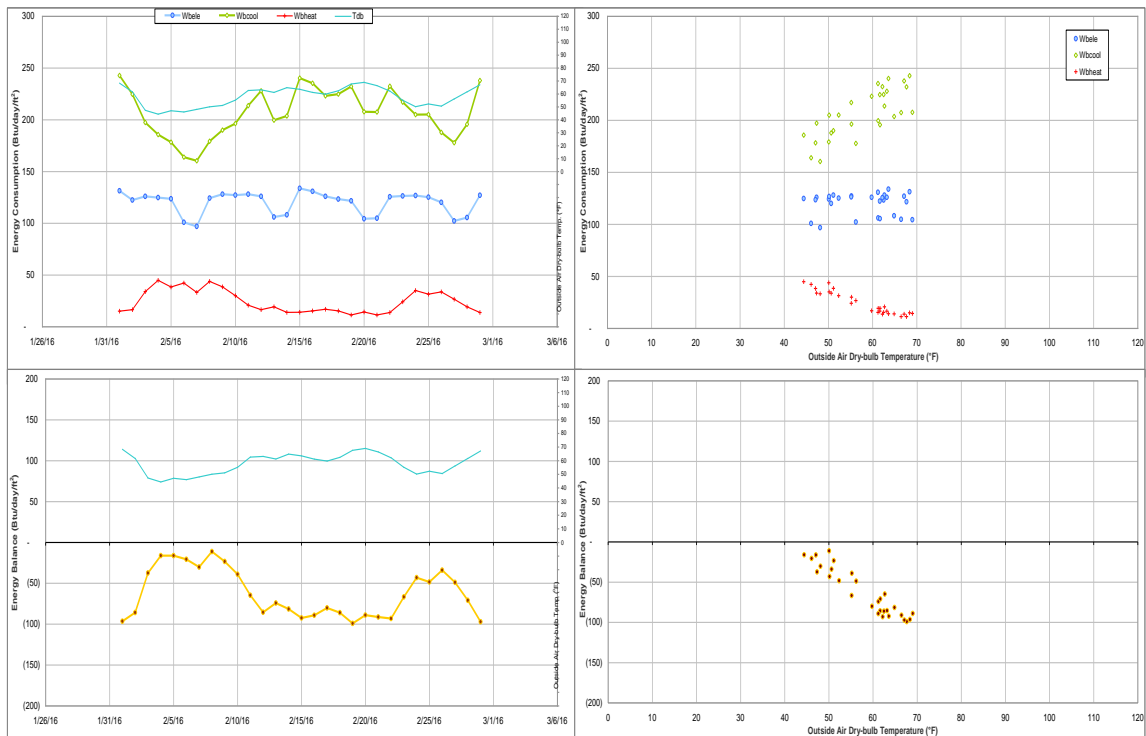


Figure IV-10 Bright Aerospace Building TAMU BLDG # 353 Energy Balance Plot during February 2016

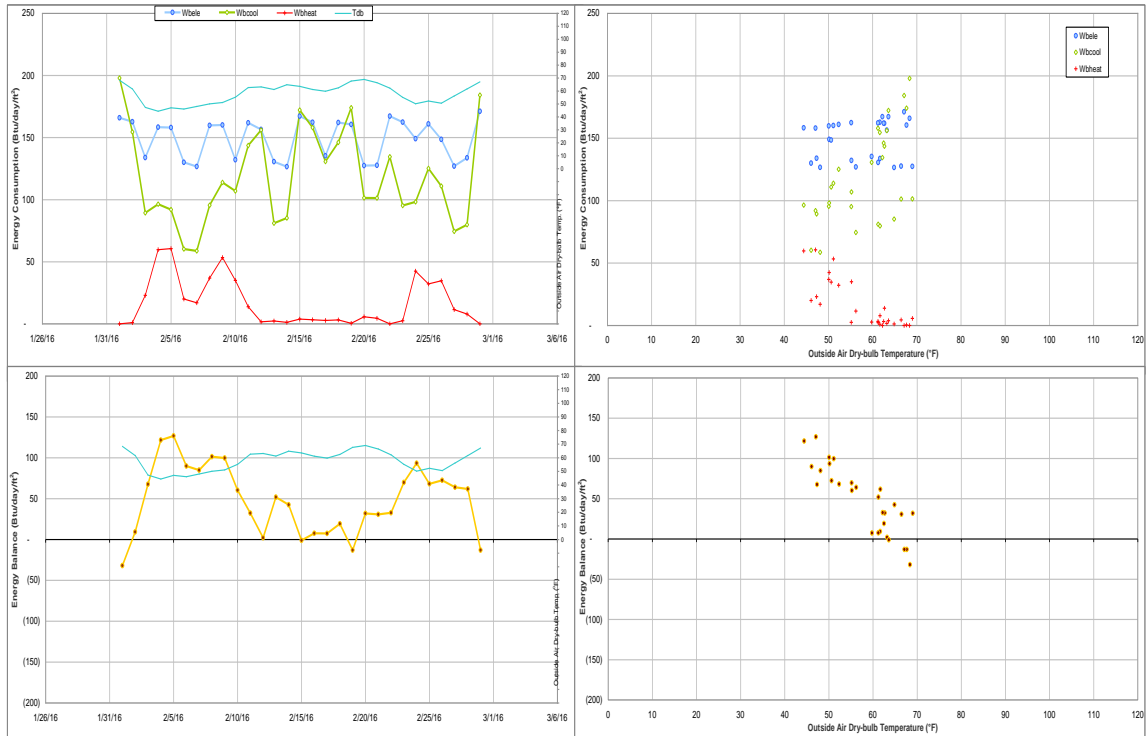


Figure IV-11 Davis Football Player Development Center TAMU BLDG # 358 Energy Balance Plot during February 2016

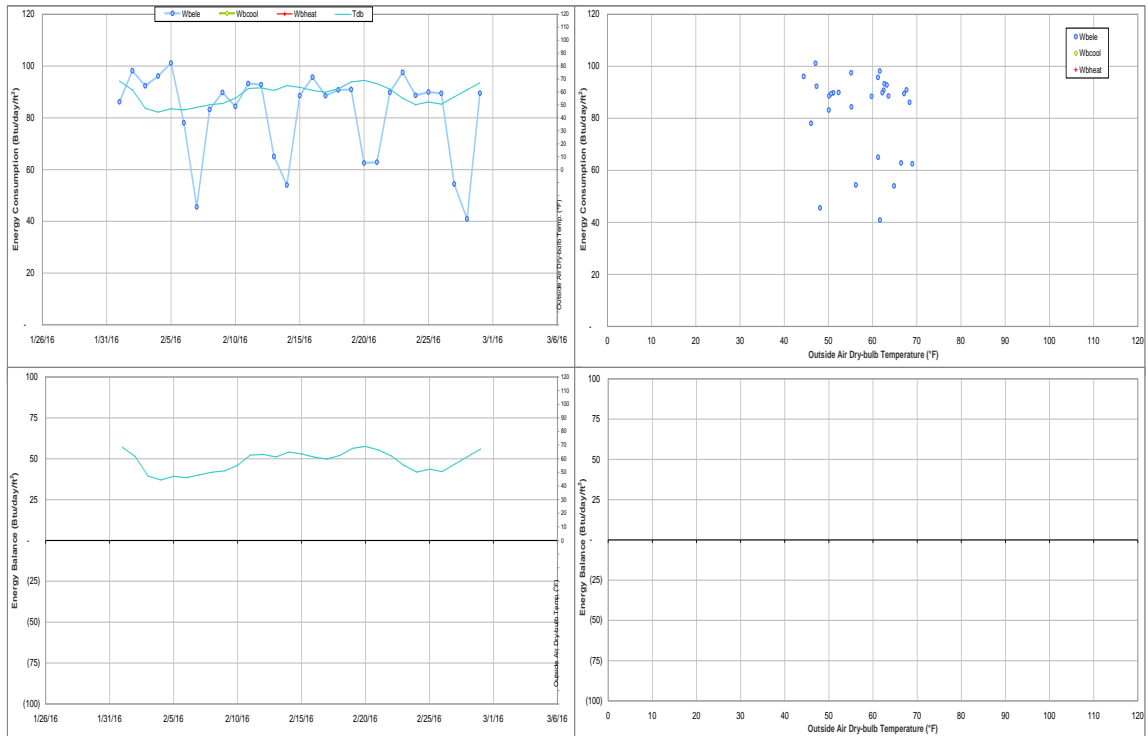


Figure IV-12 Architecture Building B TAMU BLDG # 359 Energy Balance Plot during February 2016

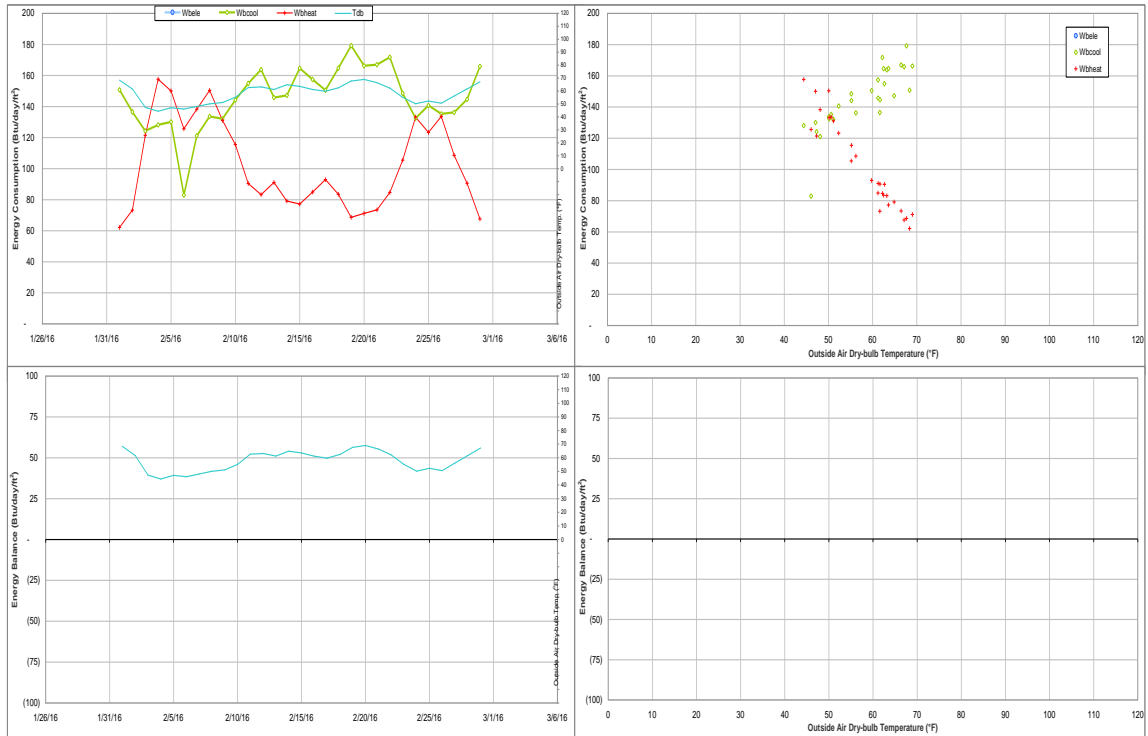


Figure IV-13 Architecture Building B&C TAMU BLDG # 359 Energy Balance Plot during February 2016

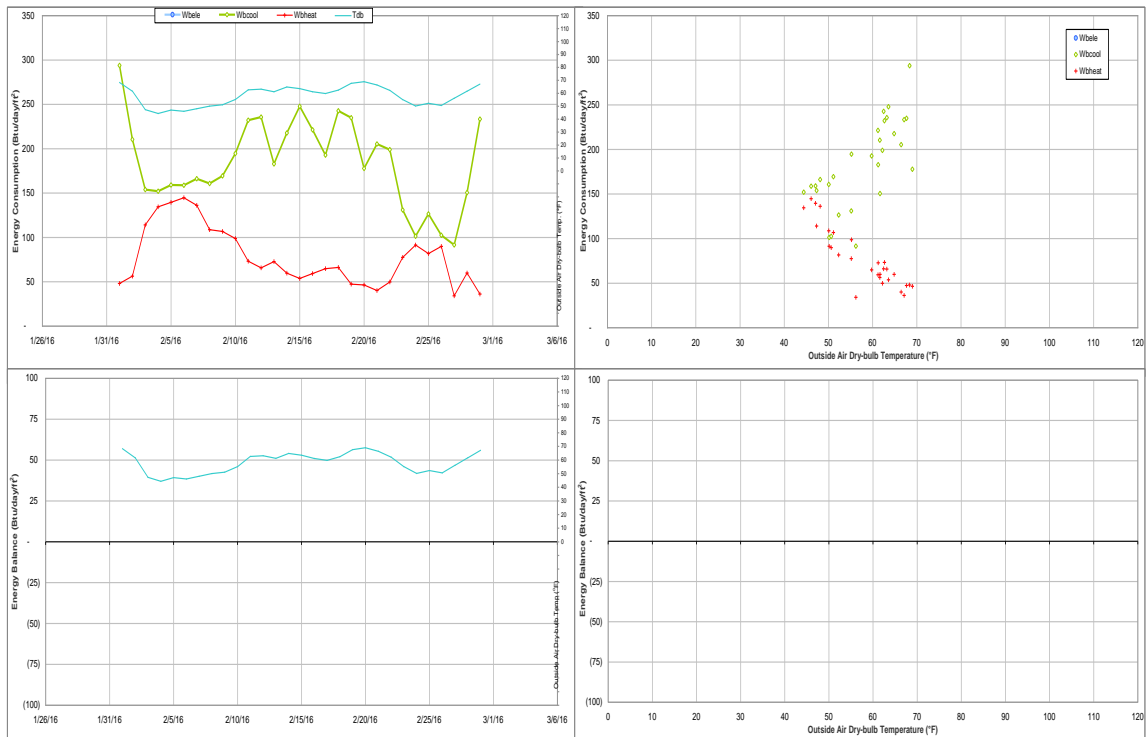


Figure IV-14 Bright Football Complex TAMU BLDG # 361 Energy Balance Plot during February 2016

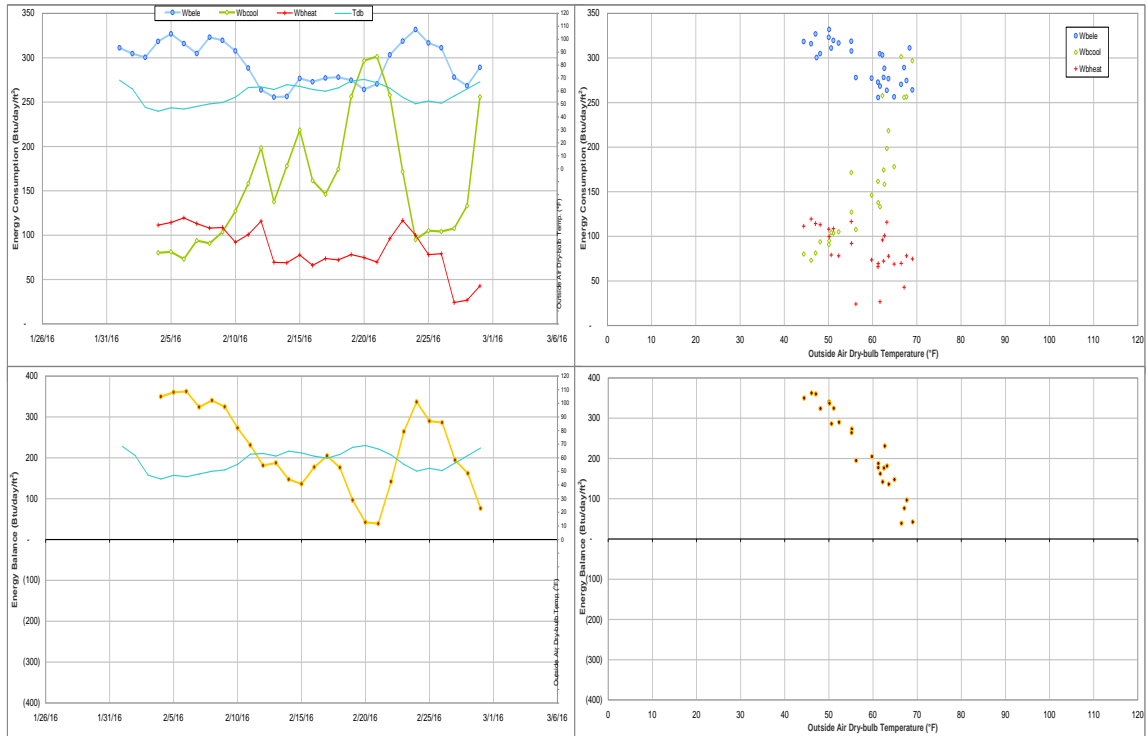


Figure IV-15 Kyle Field TAMU BLDG # 367 Energy Balance Plot during February 2016

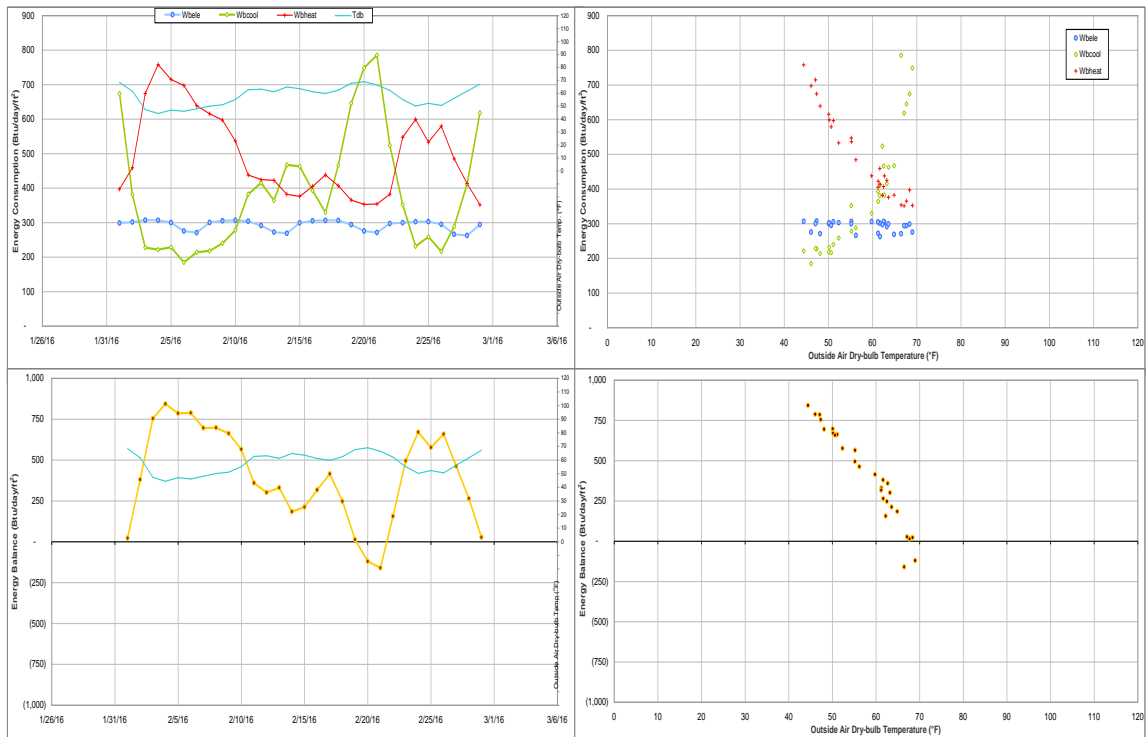


Figure IV-16 Chemistry Building Addition TAMU BLDG # 376 Energy Balance Plot during February 2016

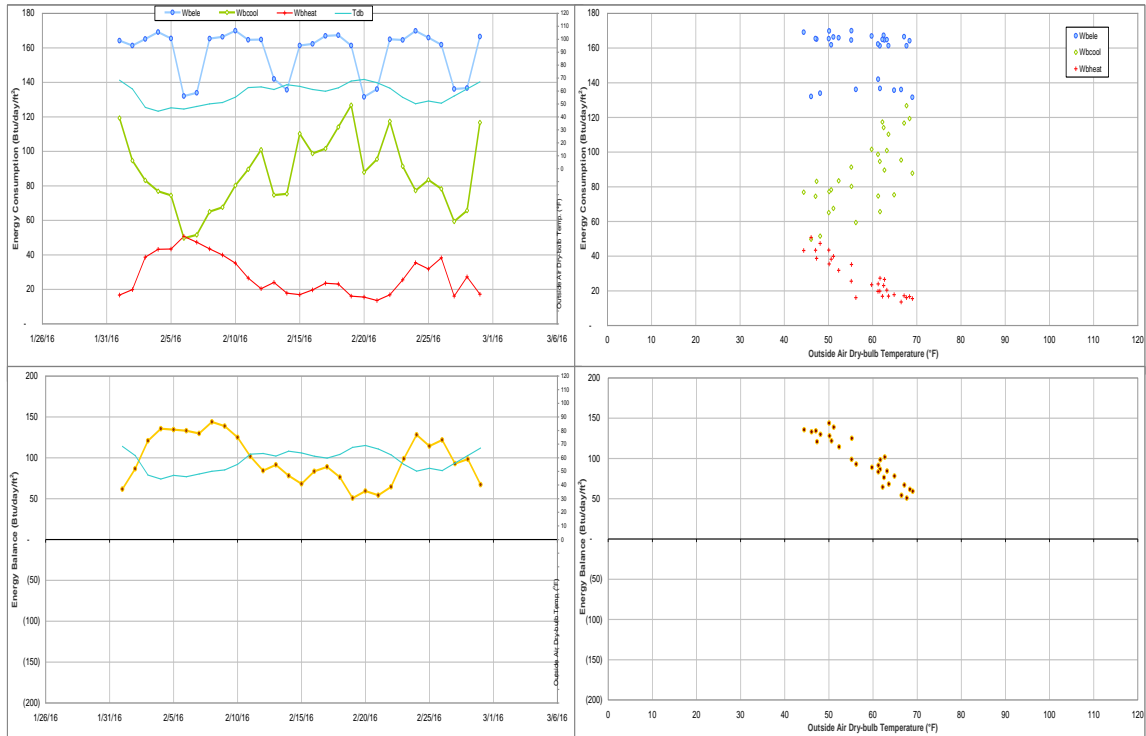


Figure IV-17 Koldus Building TAMU BLDG # 383 Energy Balance Plot during February 2016

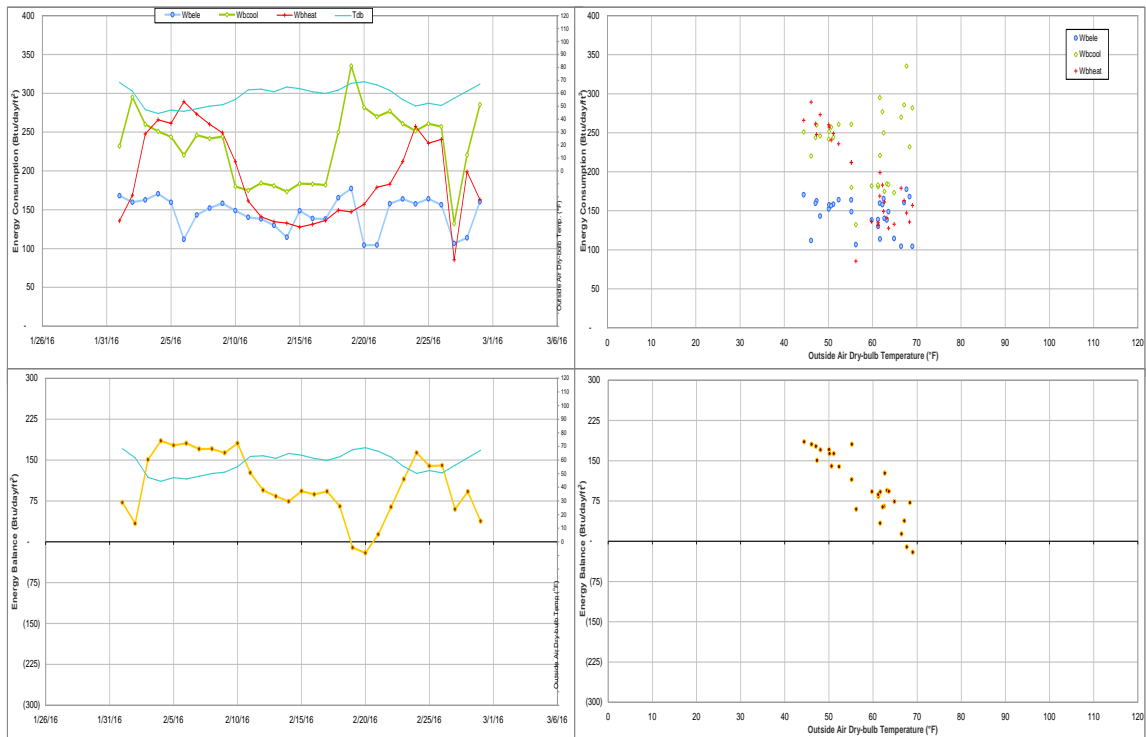


Figure IV-18 Sanders Corps of Cadets Center TAMU BLDG # 384 Energy Balance Plot during February 2016

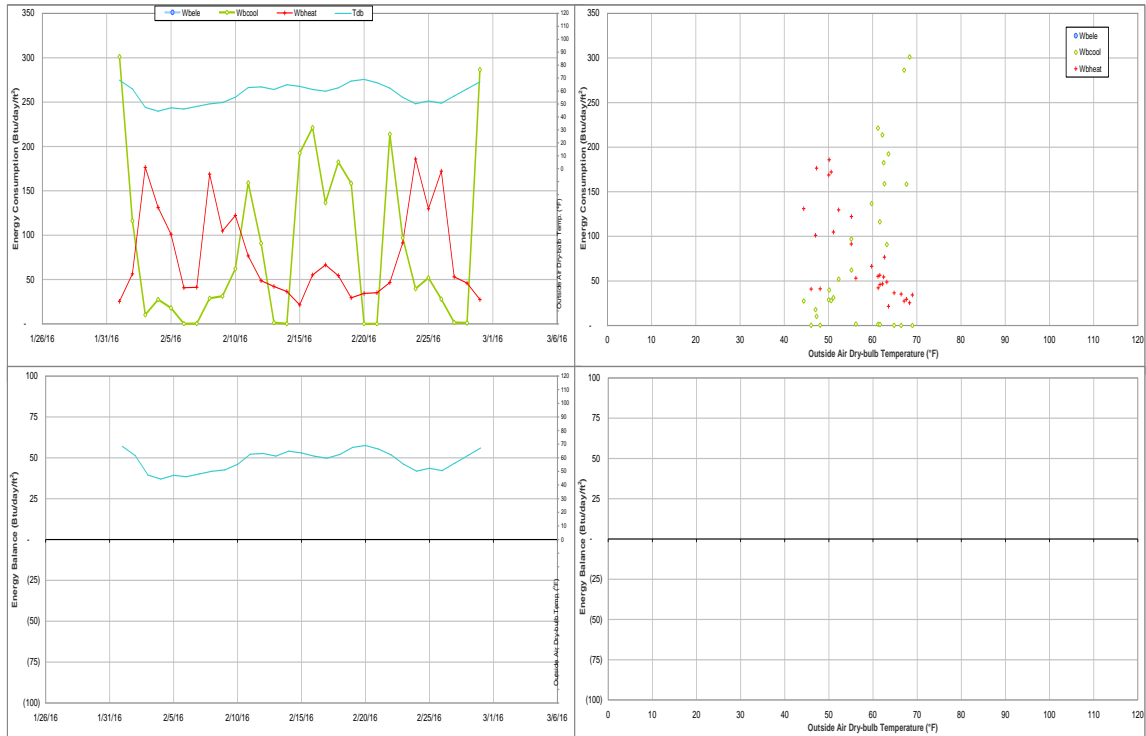


Figure IV-19 CE TTI Office & Lab Building - Pi R Square TAMU BLDG # 385 Energy Balance Plot during February 2016

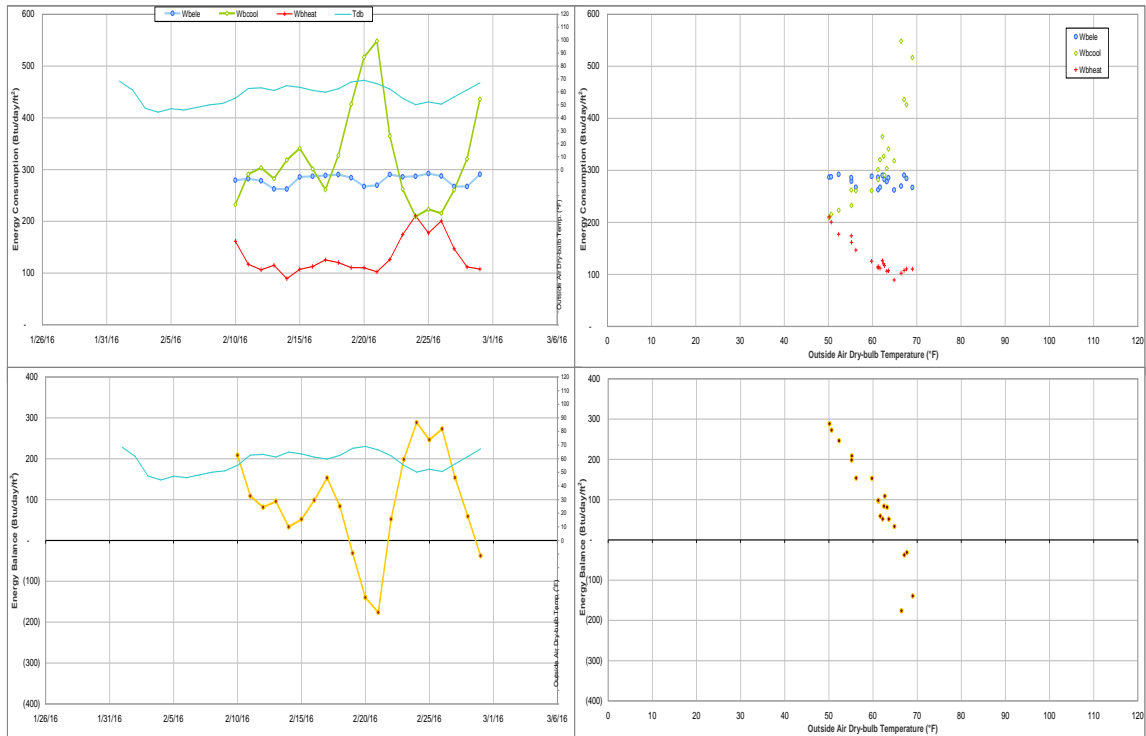


Figure IV-20 Jack E. Brown Chemical Engineering Building TAMU BLDG # 386 Energy Balance Plot during February 2016

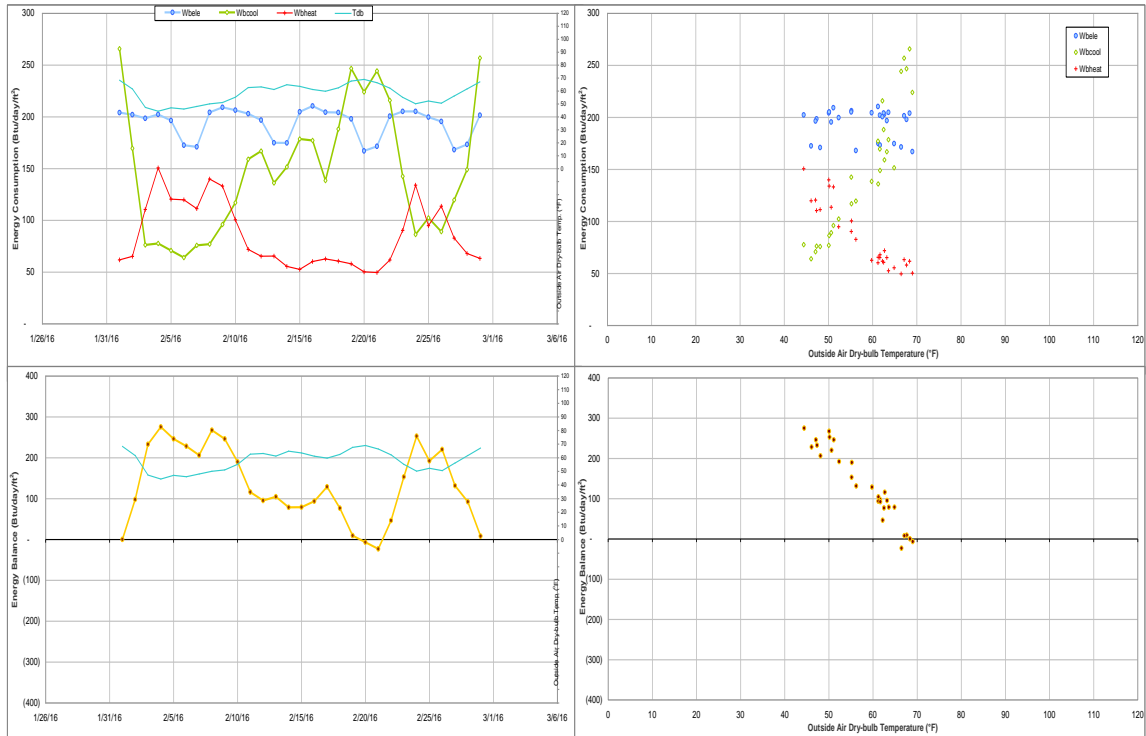


Figure IV-21 Richardson Petroleum Engineering Building TAMU BLDG # 387 Energy Balance Plot during February 2016

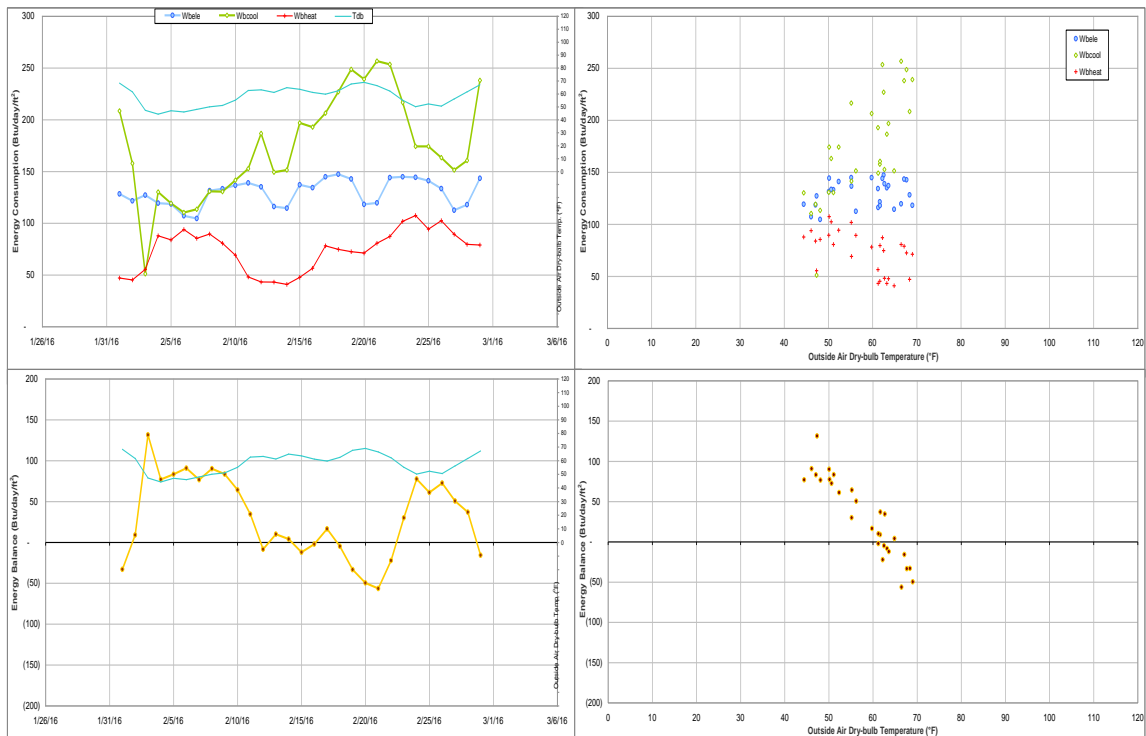


Figure IV-22 James J. Cain'51 and Mechanical Engineering Office Building TAMU BLDG # 391 Energy Balance Plot during February 2016

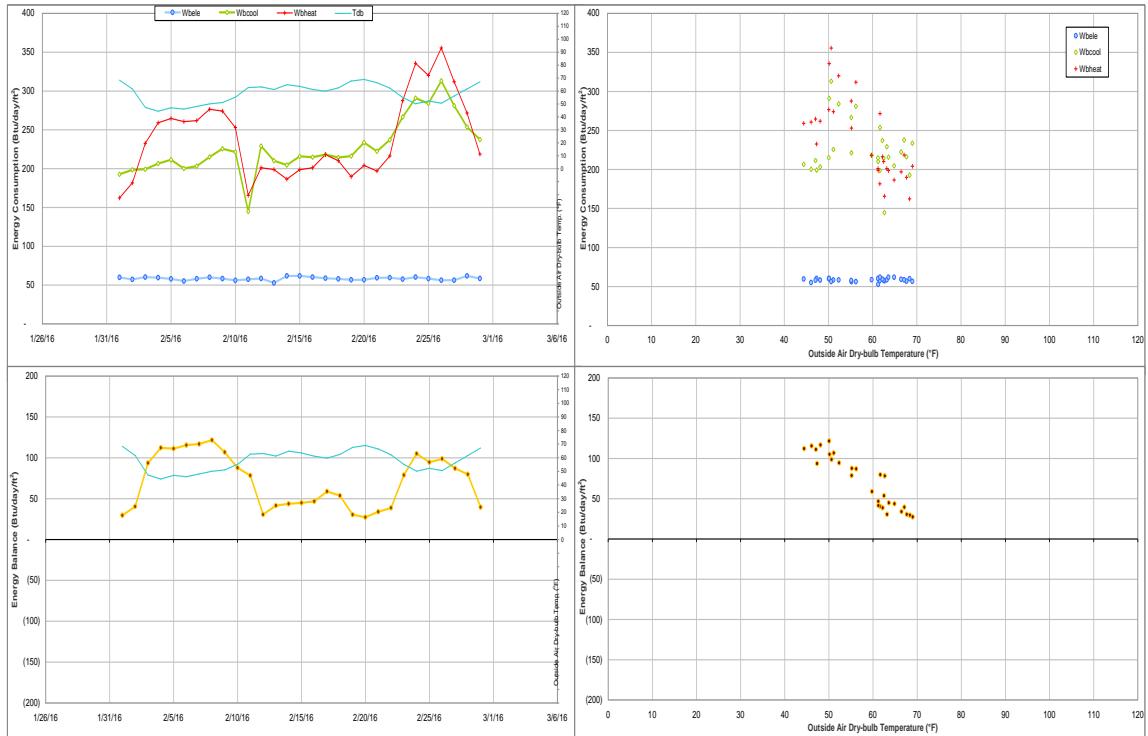


Figure IV-23 Underwood Residence Hall TAMU BLDG # 394 Energy Balance Plot during February 2016

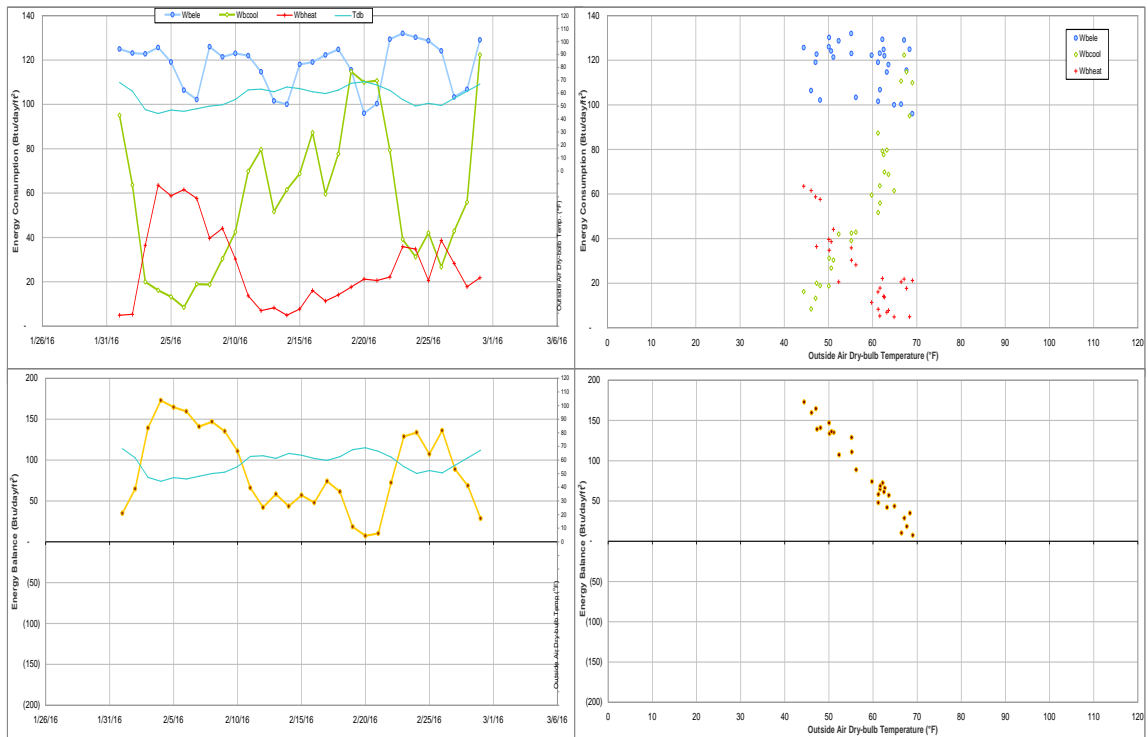


Figure IV-24 Langford Architecture Center Building A TAMU BLDG # 398 Energy Balance Plot during February 2016

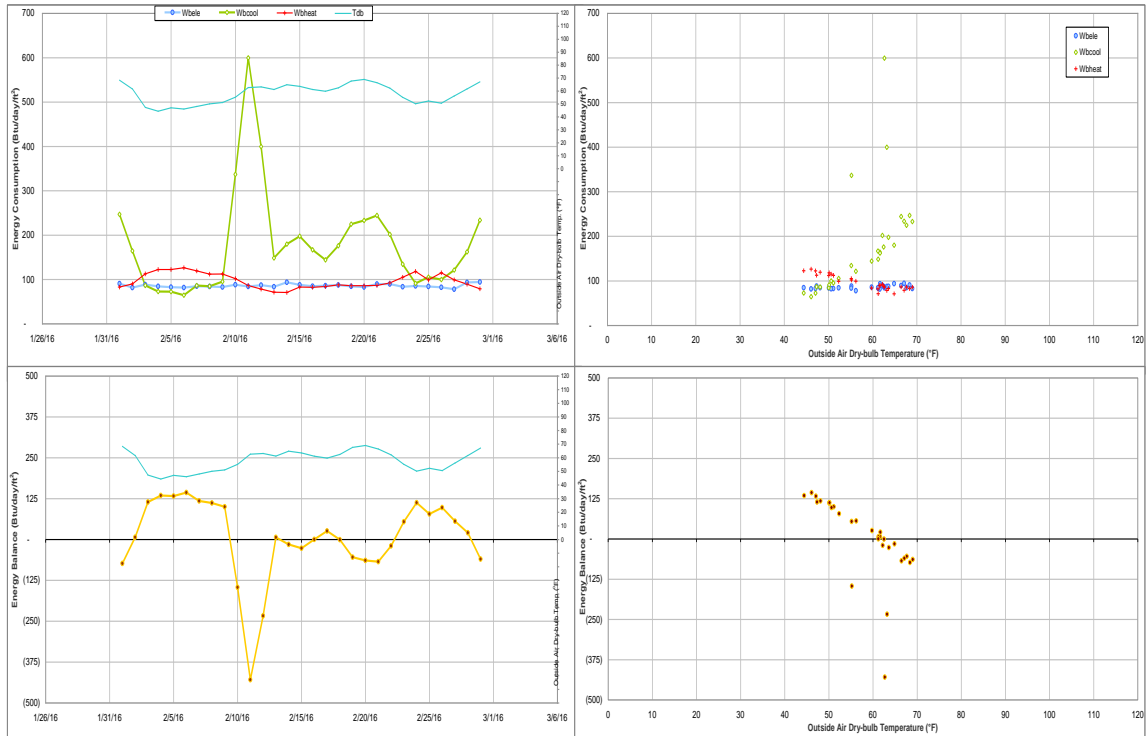


Figure IV-25 Lacy Hall - Dorm 6, Harrell Hall and Leadership Learning Center TAMU BLDG # 405-407-1402 Energy Balance Plot during February 2016

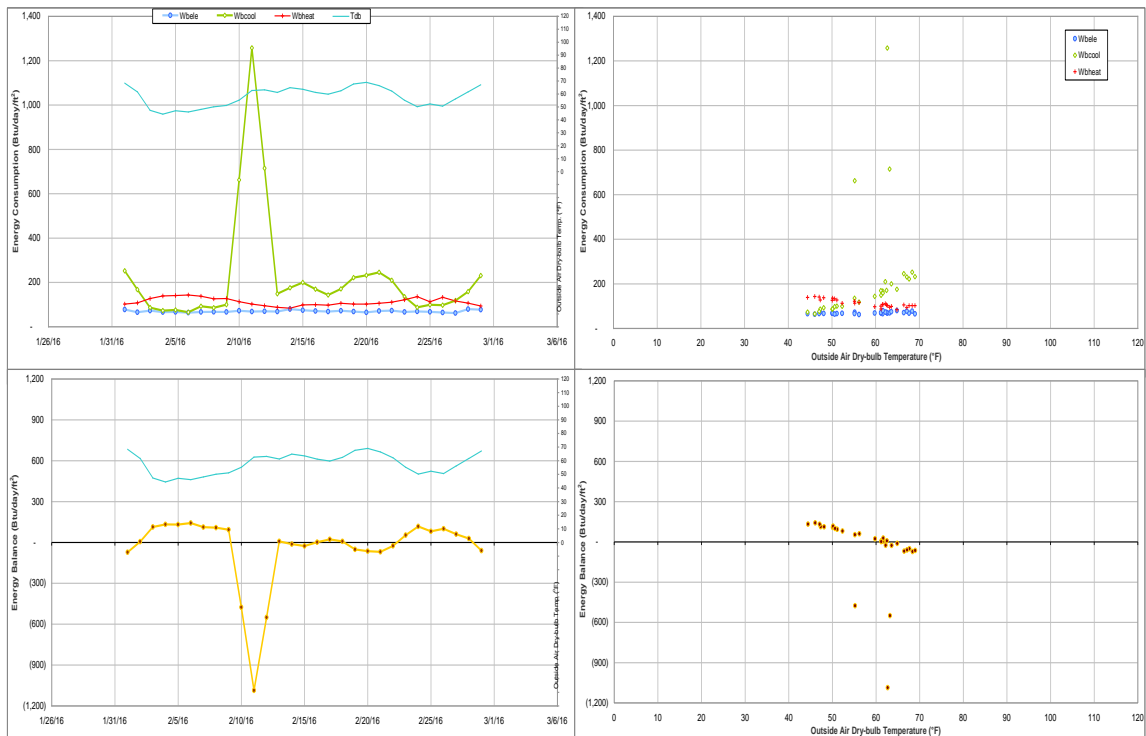


Figure IV-26 Lacy Hall - Dorm 6 TAMU BLDG # 405 Energy Balance Plot during February 2016

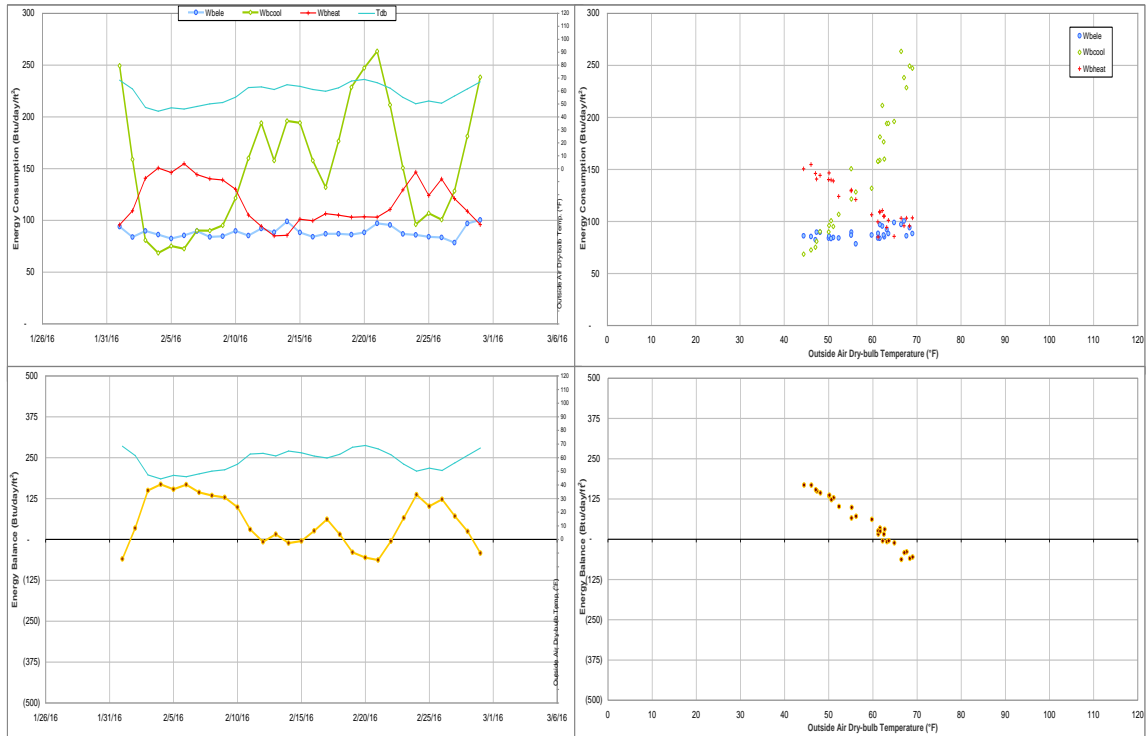


Figure IV-27 Harrell Hall - Dorm 8 TAMU BLDG # 407 Energy Balance Plot during February 2016

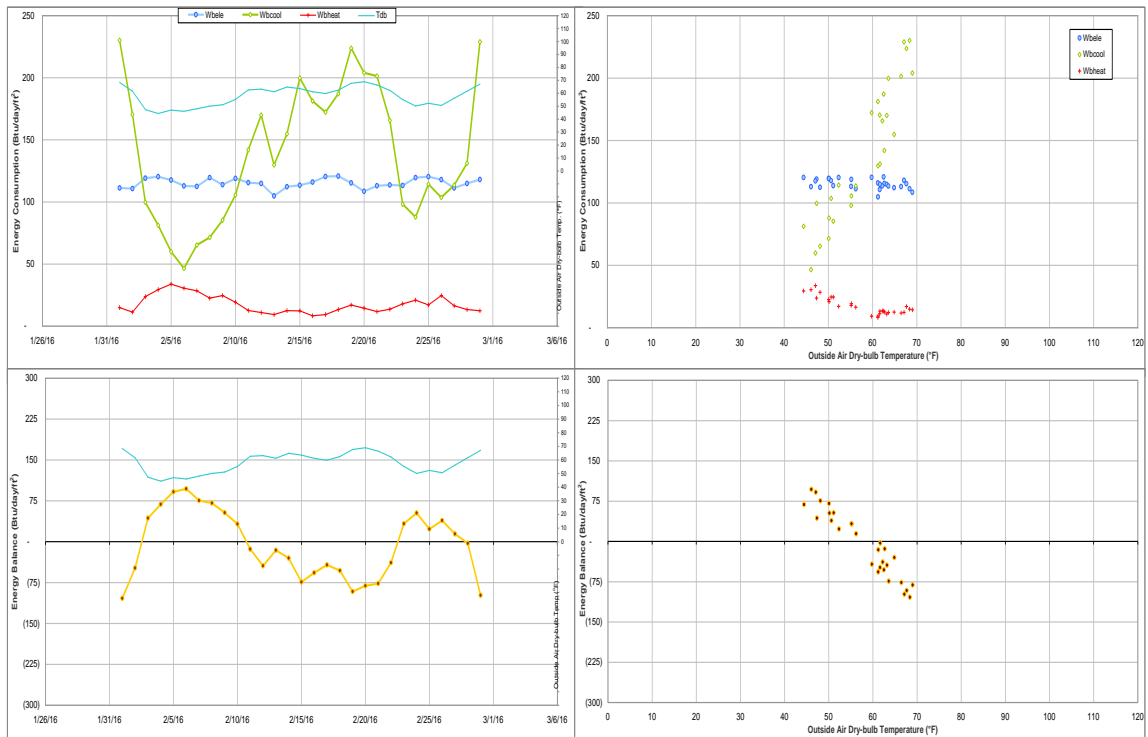


Figure IV-28 Buzbee Leadership Learning Center TAMU BLDG # 1402 Energy Balance Plot during February 2016

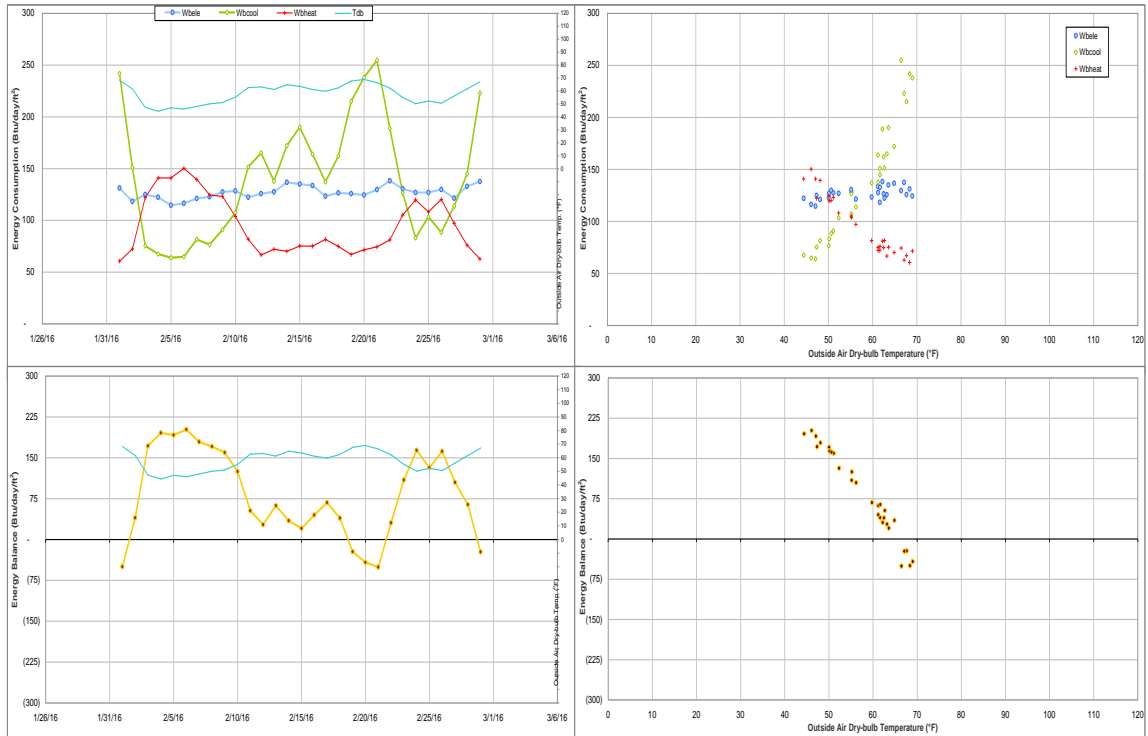


Figure IV-29 Leonard Hall - Dorm 7 and Ash LLC TAMU BLDG # 406-1403 Energy Balance Plot during February 2016

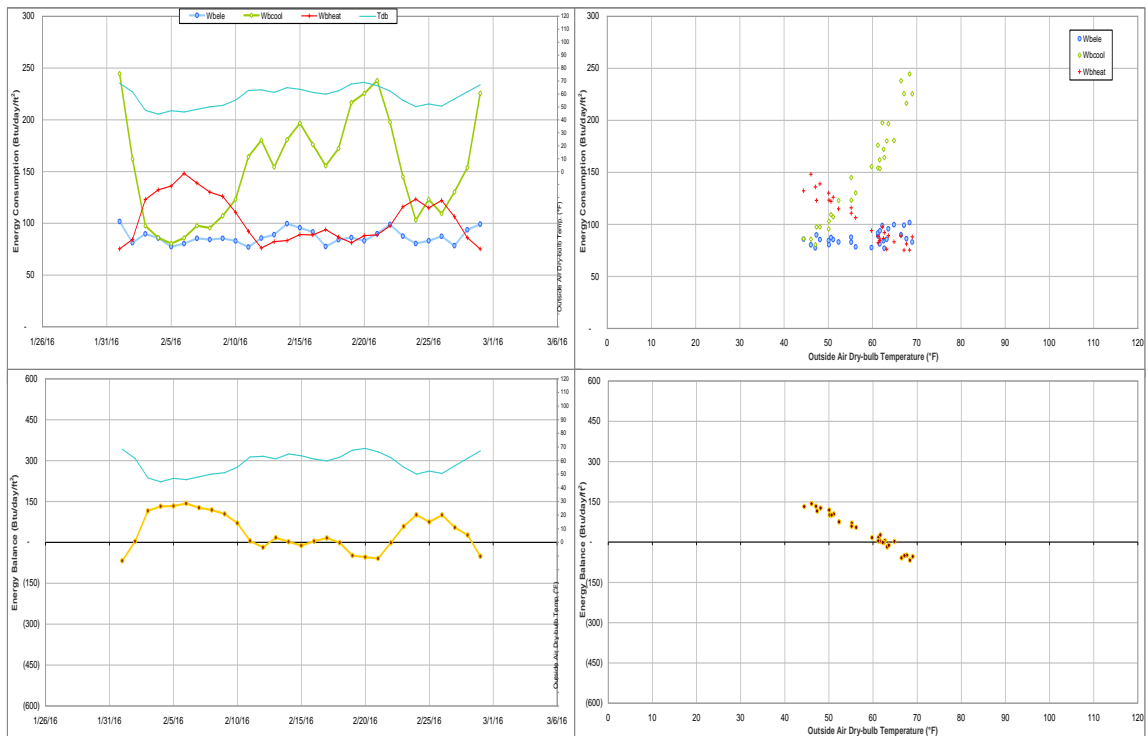


Figure IV-30 Leonard Hall - Dorm 7 TAMU BLDG # 406 Energy Balance Plot during February 2016

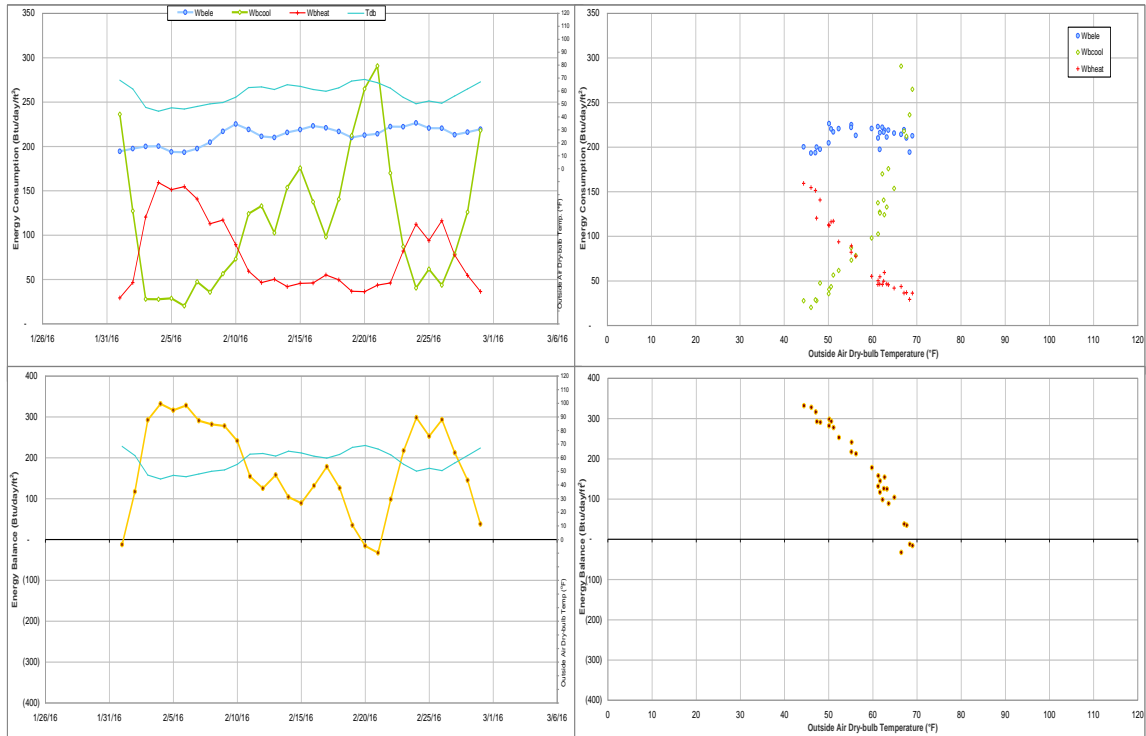


Figure IV-31 H. Grady Ash, Jr. '58 Leadership Learning Center TAMU BLDG # 1403 Energy Balance Plot during February 2016

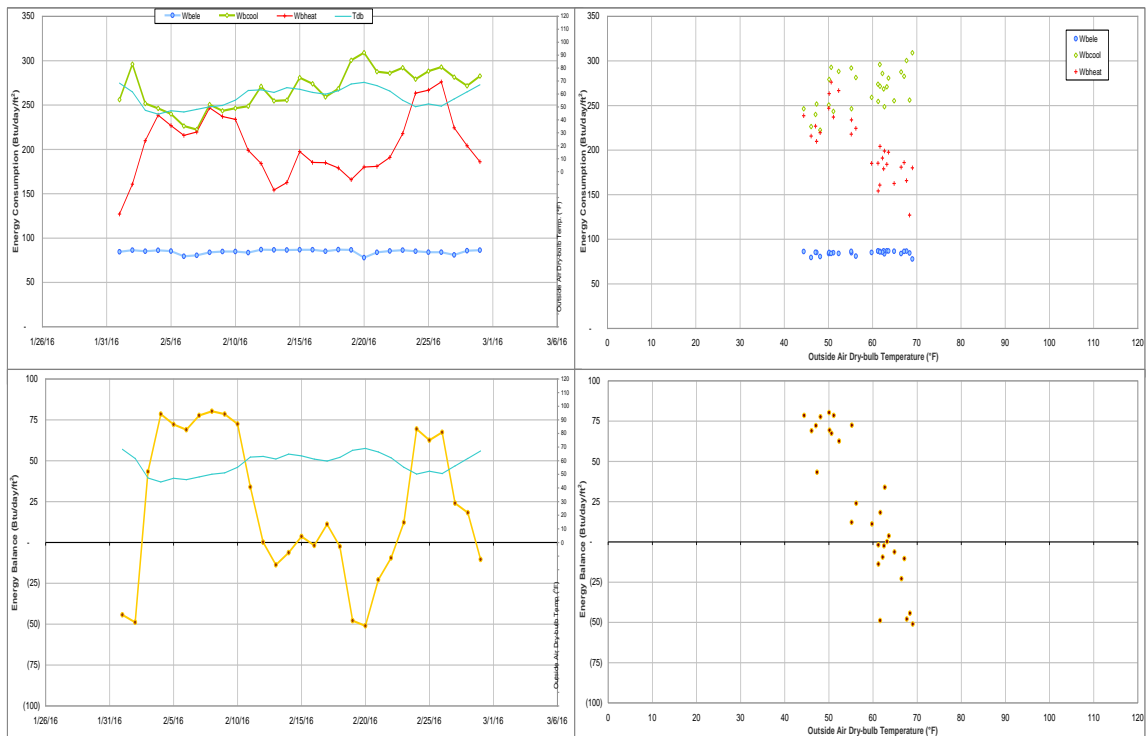


Figure IV-32 Whitely Hall - Dorm 9 TAMU BLDG # 408 Energy Balance Plot during February 2016

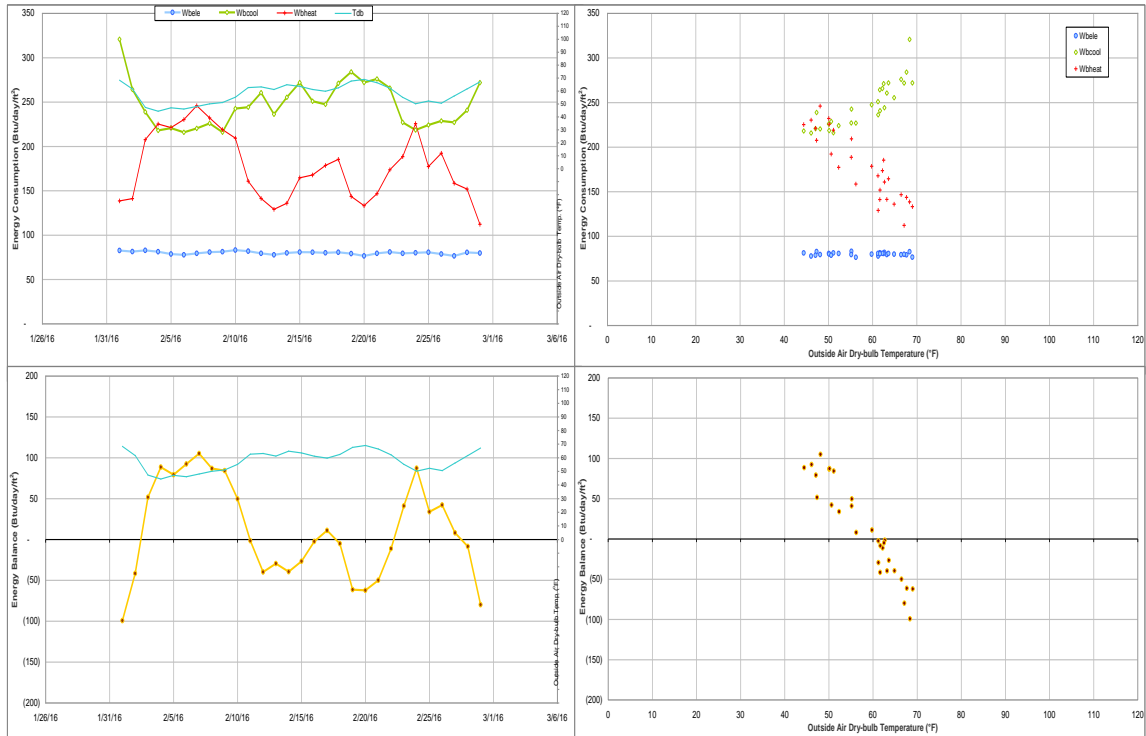


Figure IV-33 White Hall - Dorm 10 TAMU BLDG # 409 Energy Balance Plot during February 2016

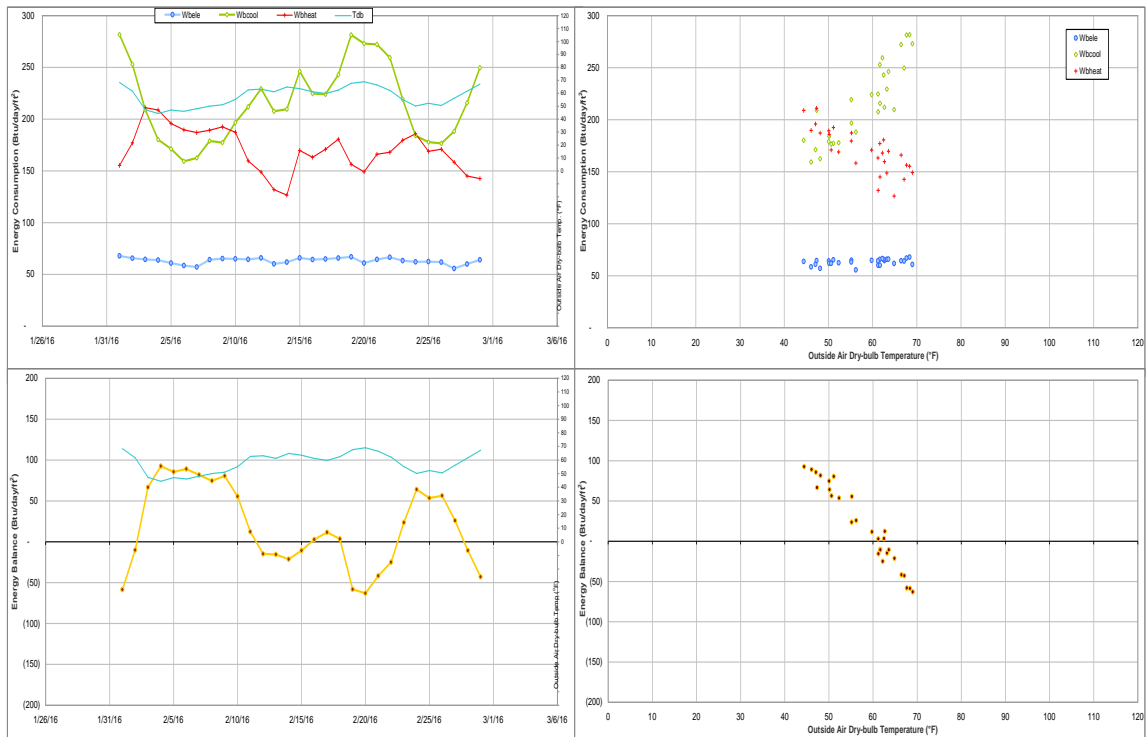


Figure IV-34 Harrington Hall - Dorm 11 TAMU BLDG # 410 Energy Balance Plot during February 2016

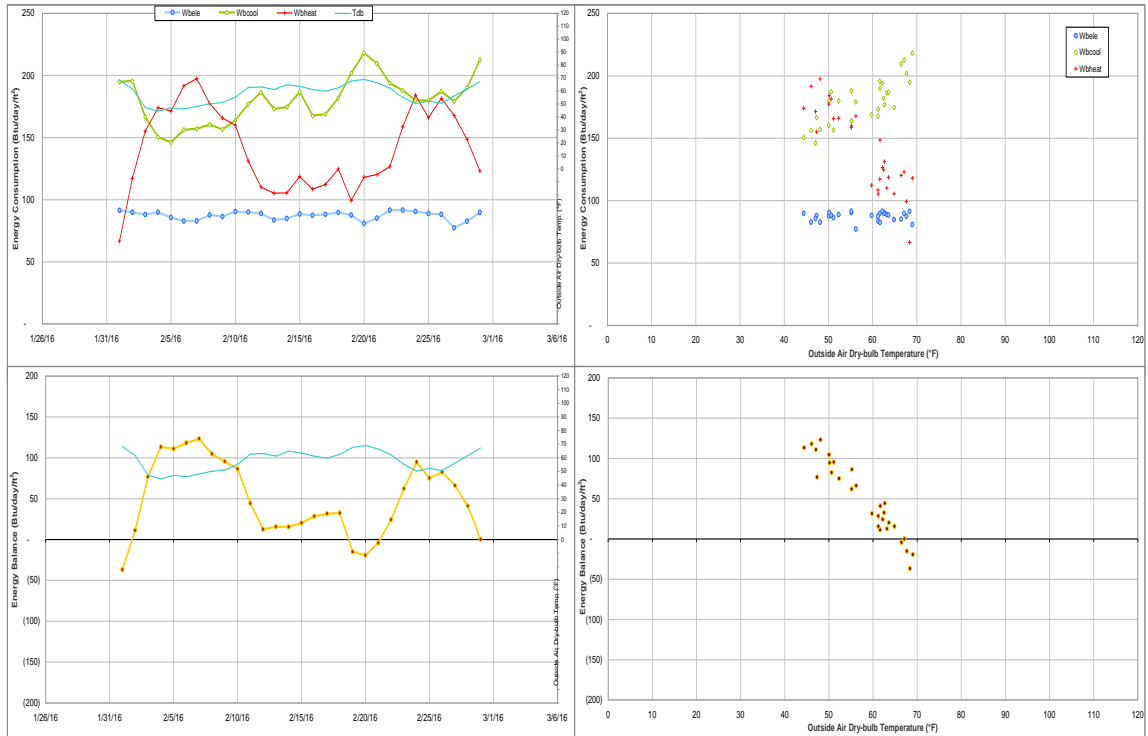


Figure IV-35 Utay Hall - Dorm 12 TAMU BLDG # 411 Energy Balance Plot during February 2016

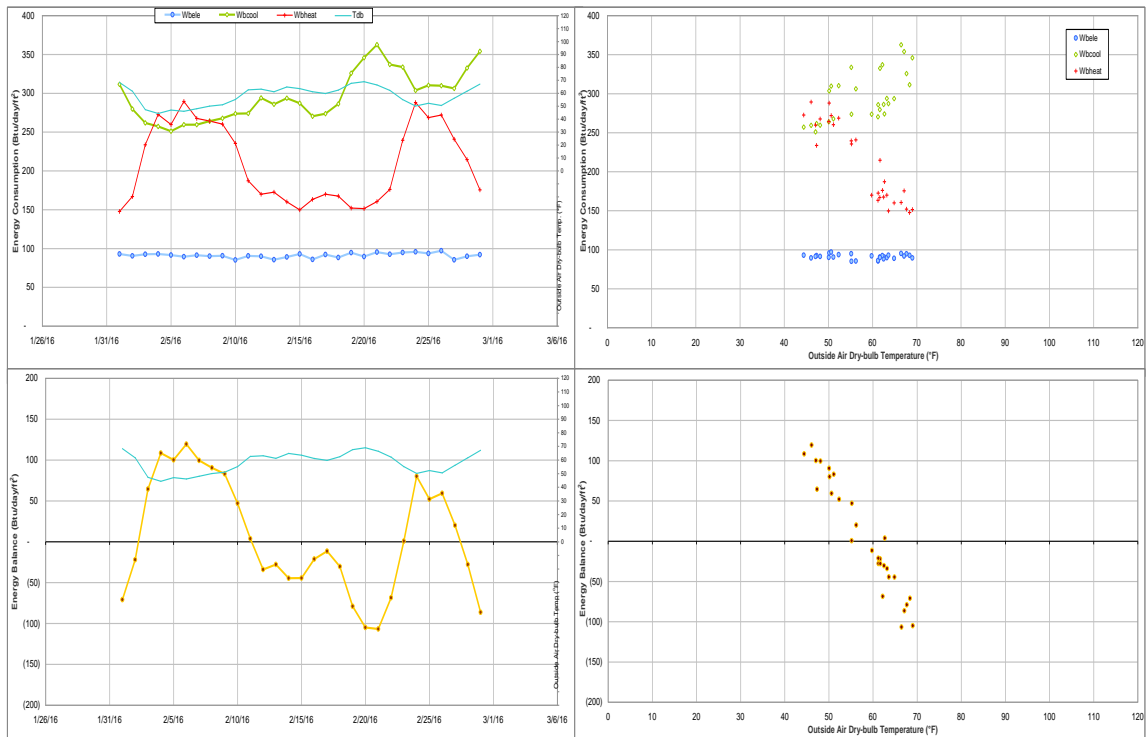


Figure IV-36 Moses Residence Hall TAMU BLDG # 412 Energy Balance Plot during February 2016

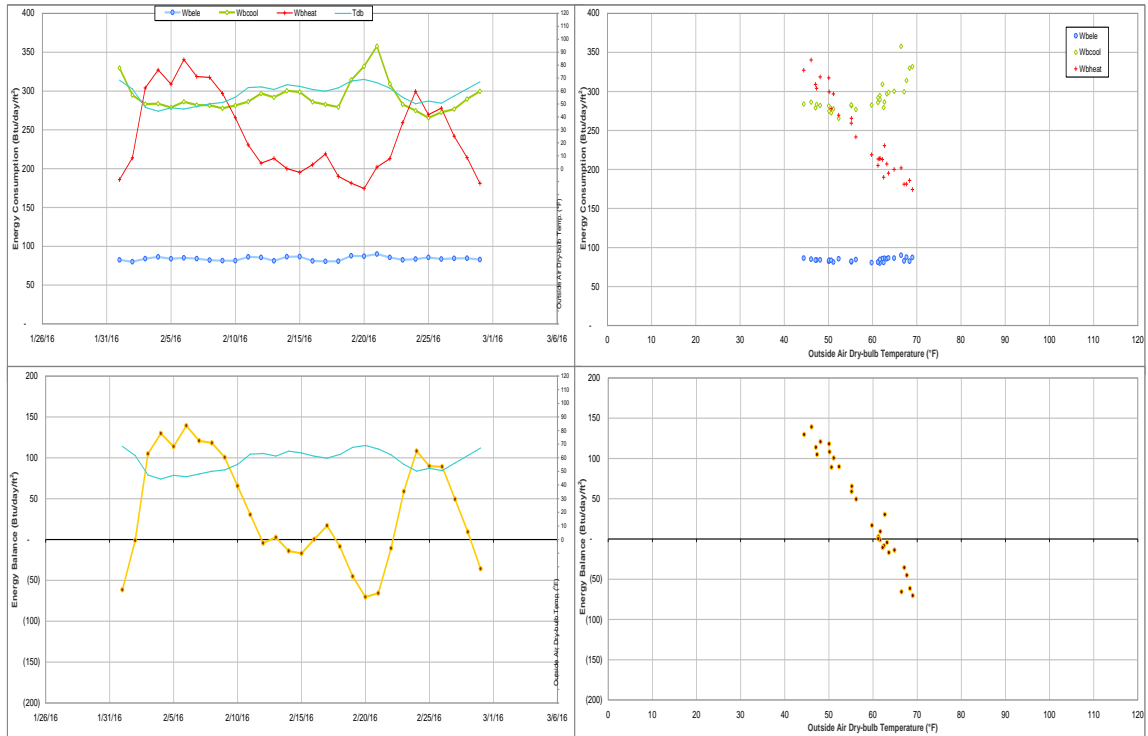


Figure IV-37 Davis-Gary Residence Hall TAMU BLDG # 415 Energy Balance Plot during February 2016

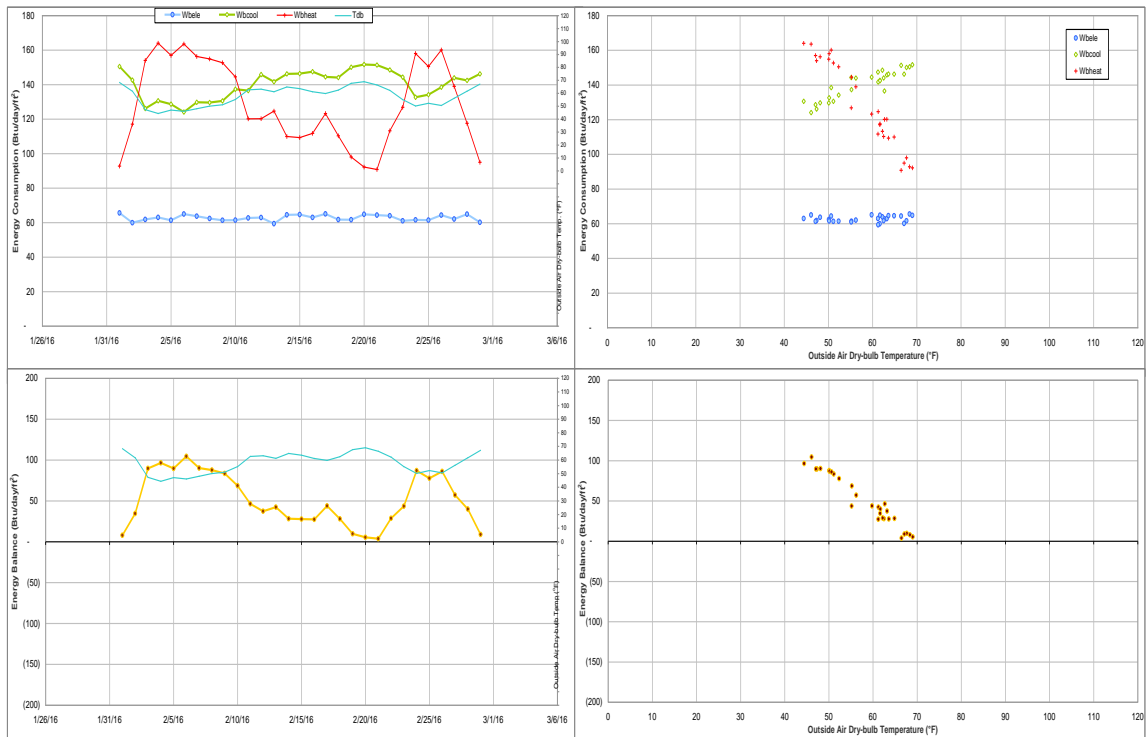


Figure IV-38 Legett Residence Hall TAMU BLDG # 419 Energy Balance Plot during February 2016

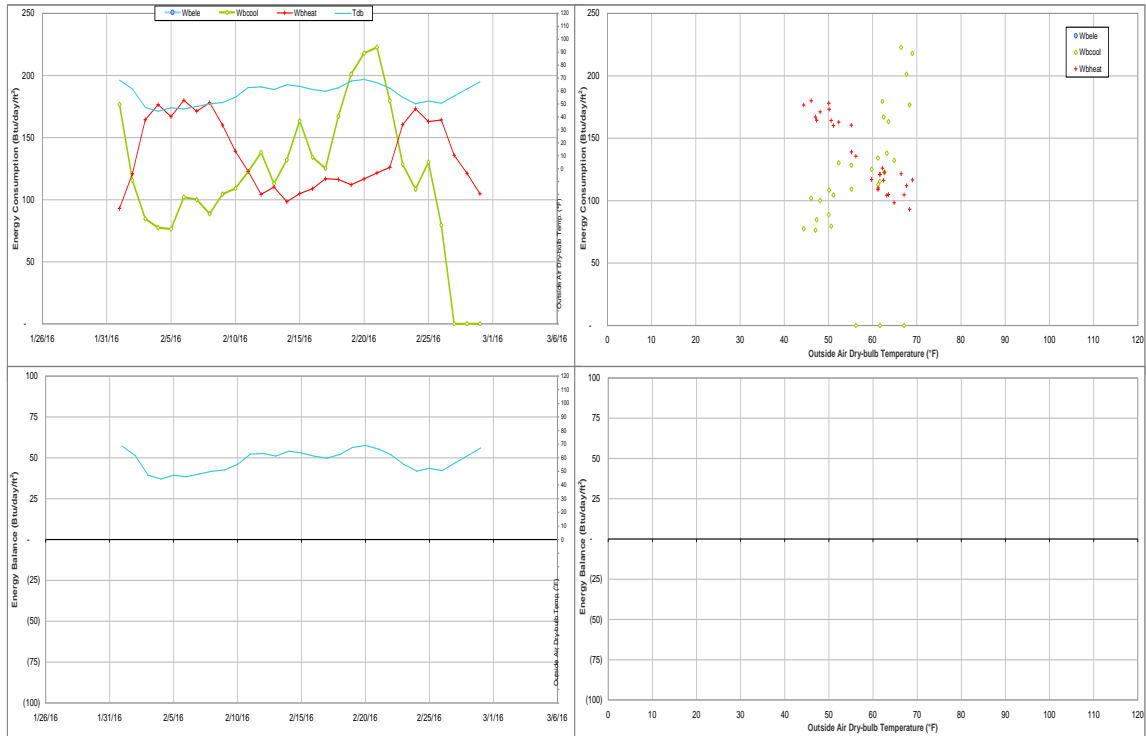


Figure IV-39 Milner Hall TAMU BLDG # 420 Energy Balance Plot during February 2016

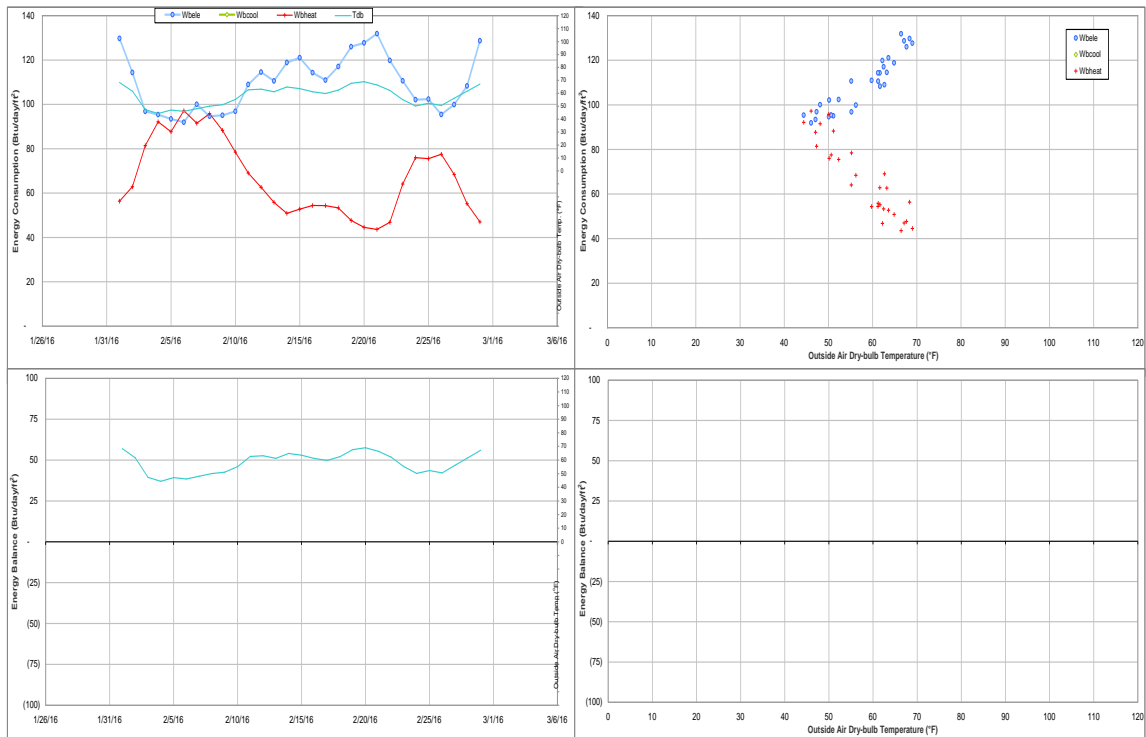


Figure IV-40 Walton Residence Hall TAMU BLDG # 422 Energy Balance Plot during February 2016

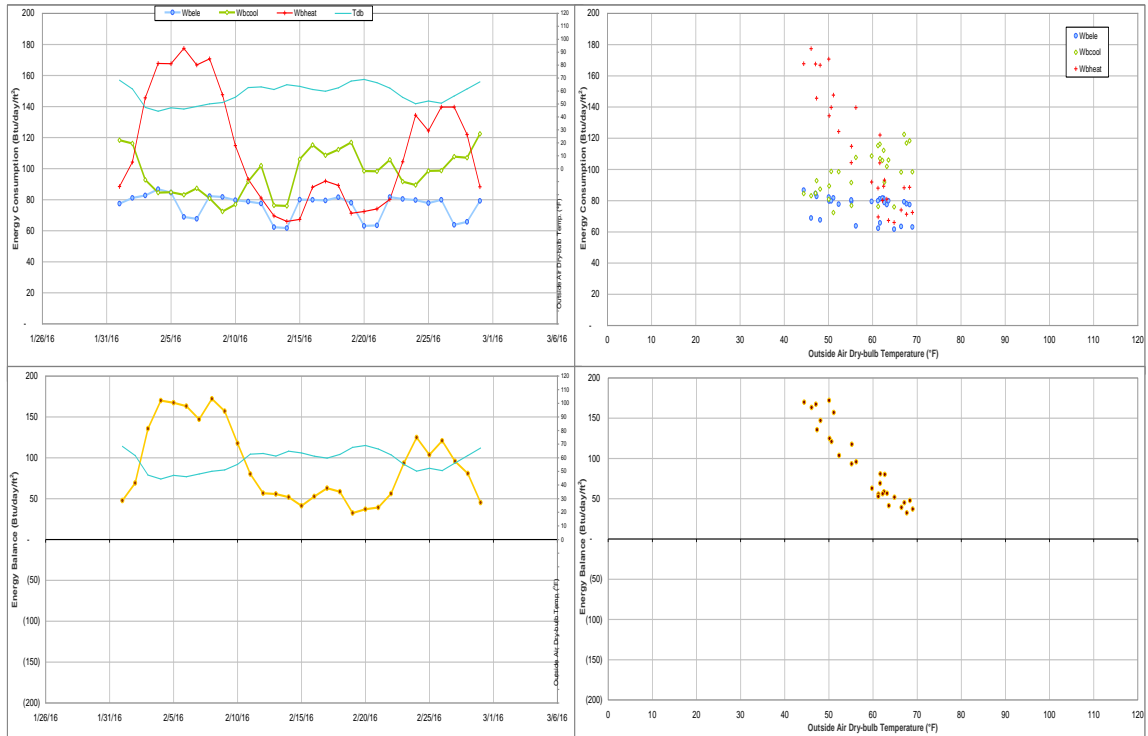


Figure IV-41 Hotard Hall TAMU BLDG # 424 Energy Balance Plot during February 2016

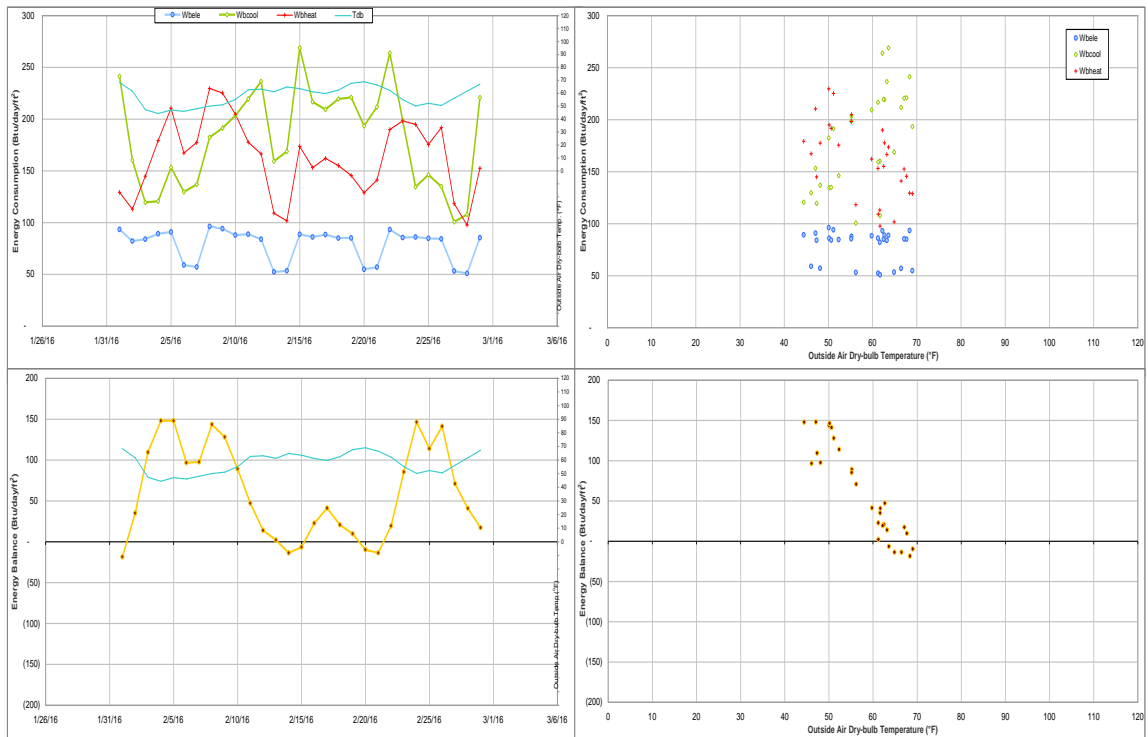


Figure IV-42 Henderson Hall TAMU BLDG # 425 Energy Balance Plot during February 2016

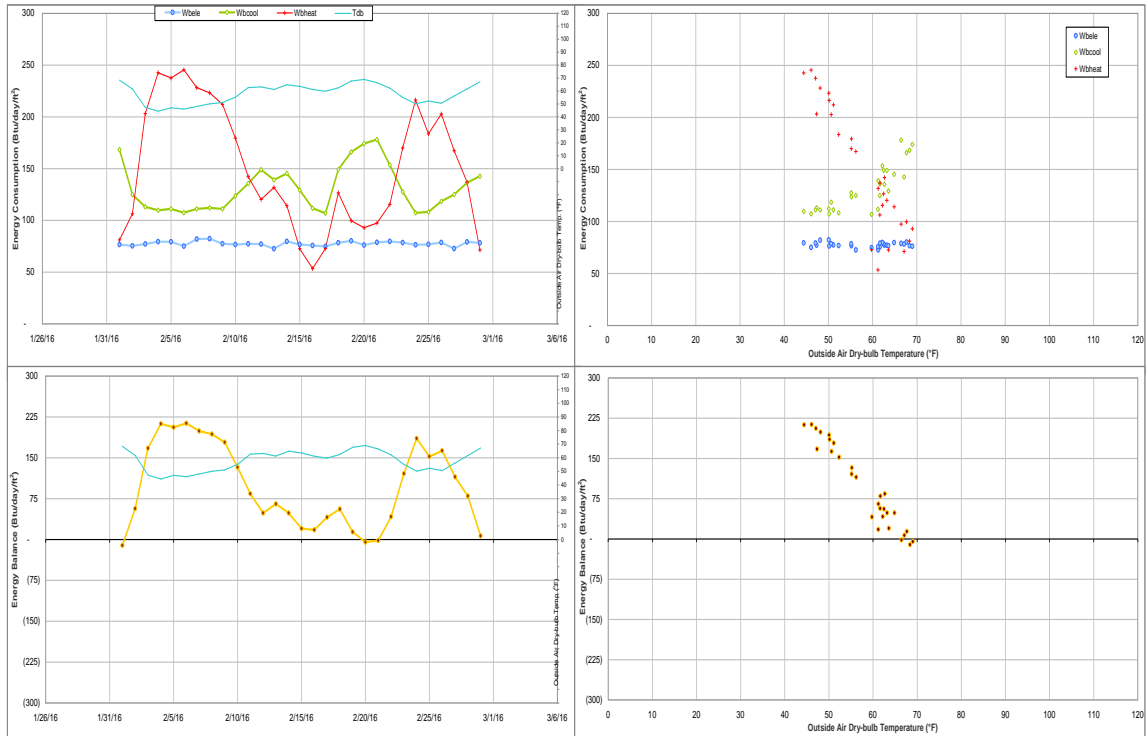


Figure IV-43 FHK Complex TAMU BLDG # 426 Energy Balance Plot during February 2016

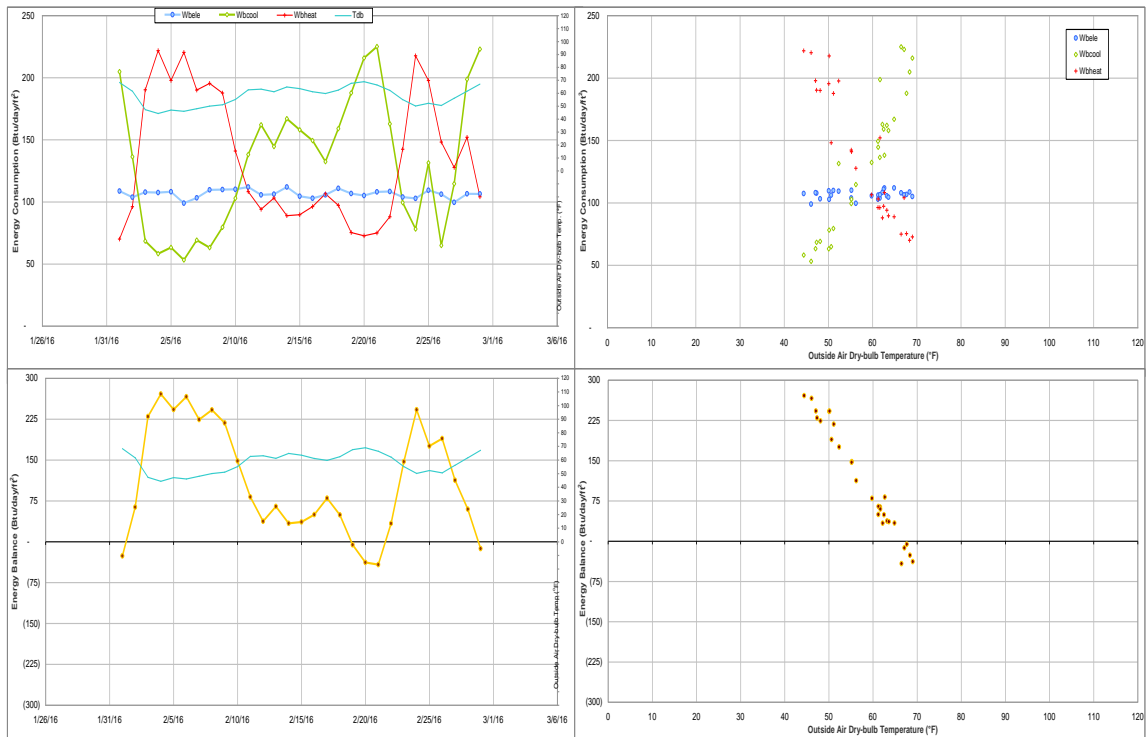


Figure IV-44 Schumacher Residence Hall TAMU BLDG # 430 Energy Balance Plot during February 2016

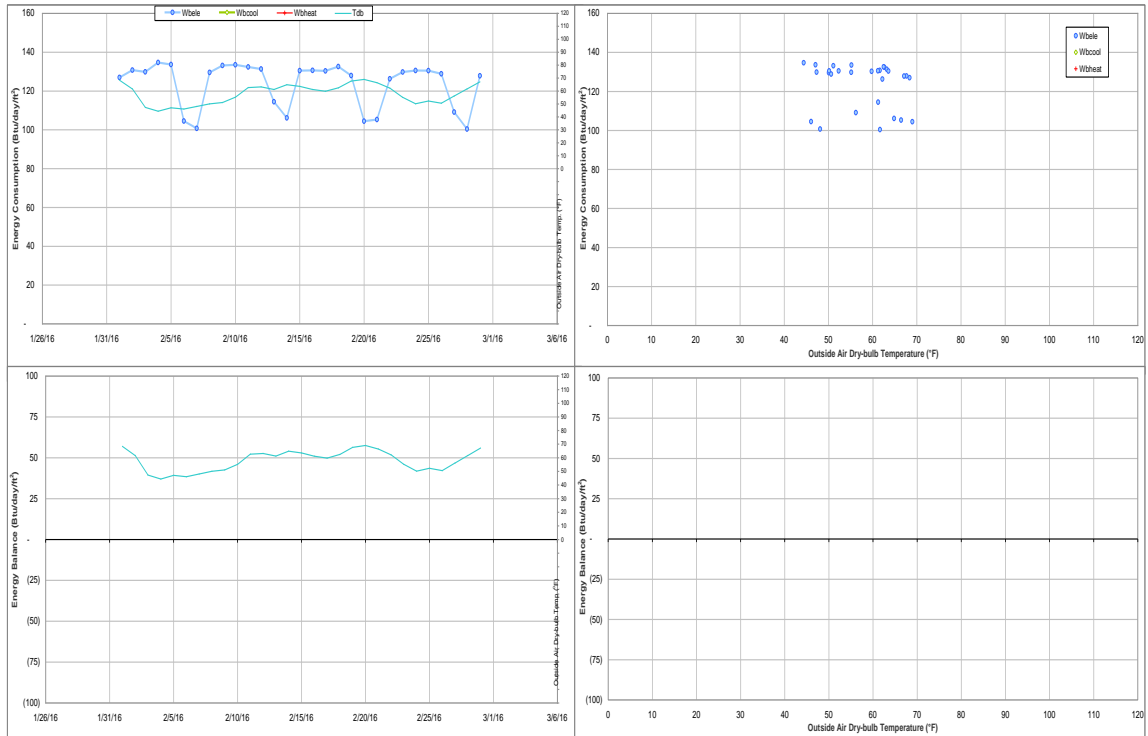


Figure IV-45 Architecture Building C TAMU BLDG # 432 Energy Balance Plot during February 2016

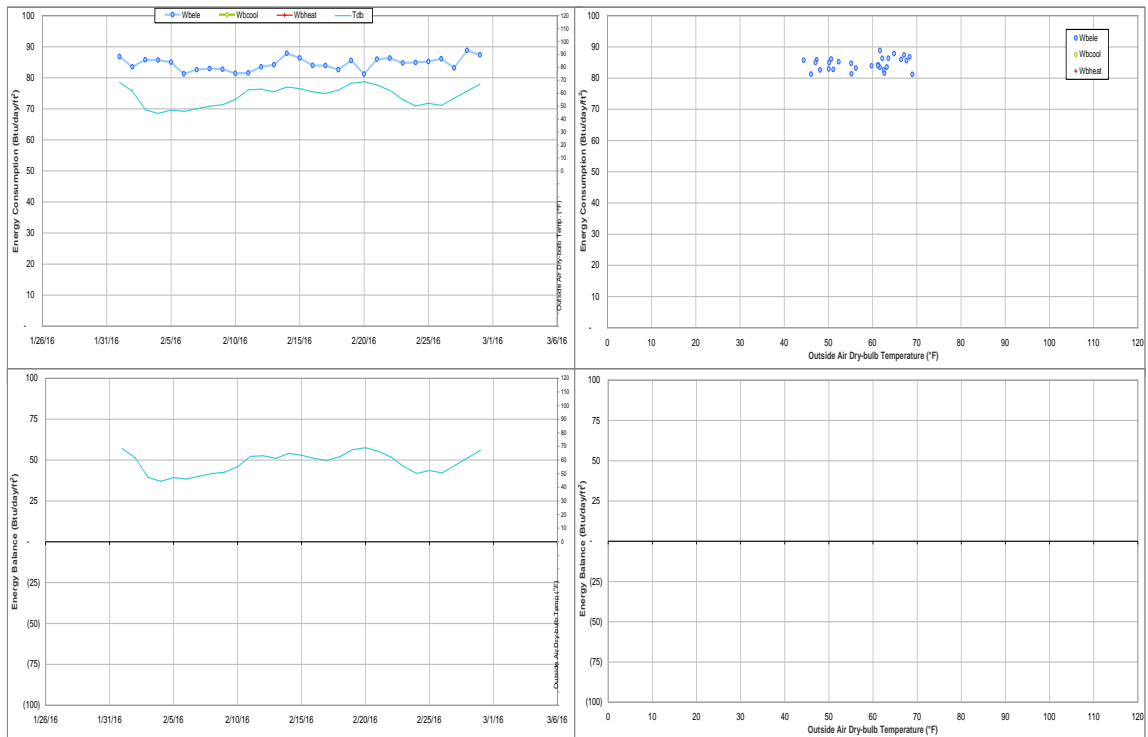


Figure IV-46 Mosher Krueger Dunn Aston TAMU BLDG # 433-441-442-447 Energy Balance Plot during February 2016

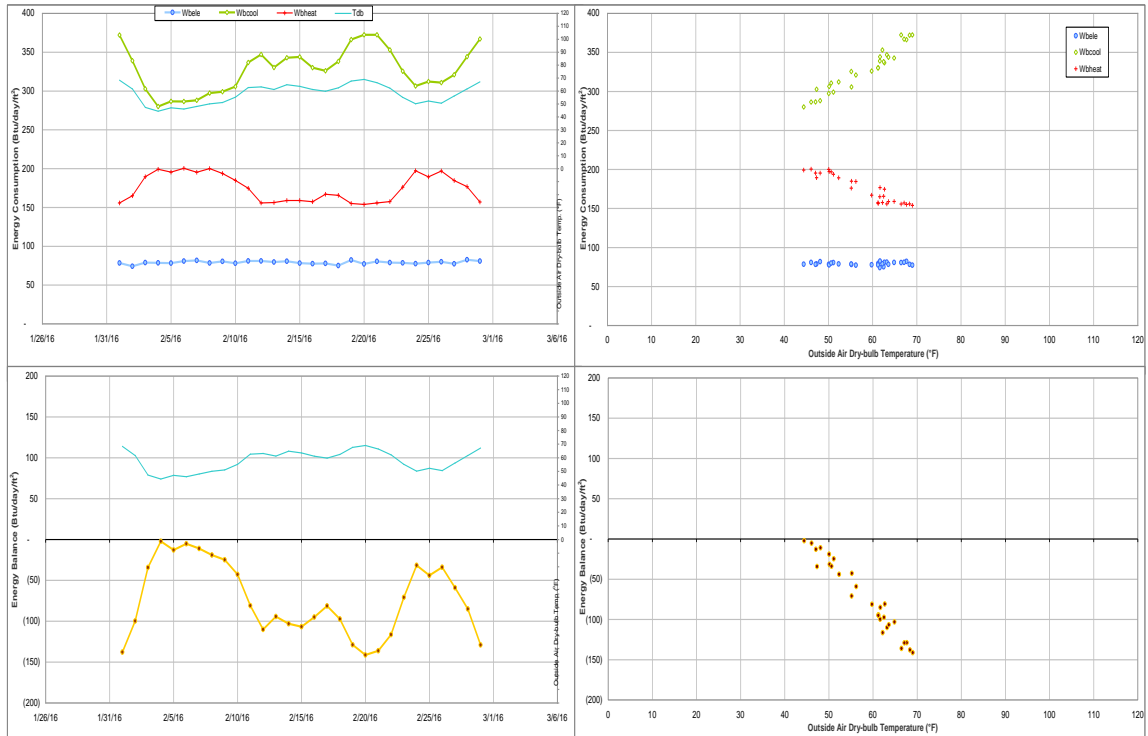


Figure IV-47 Moshier Residence Hall TAMU BLDG # 433 Energy Balance Plot during February 2016

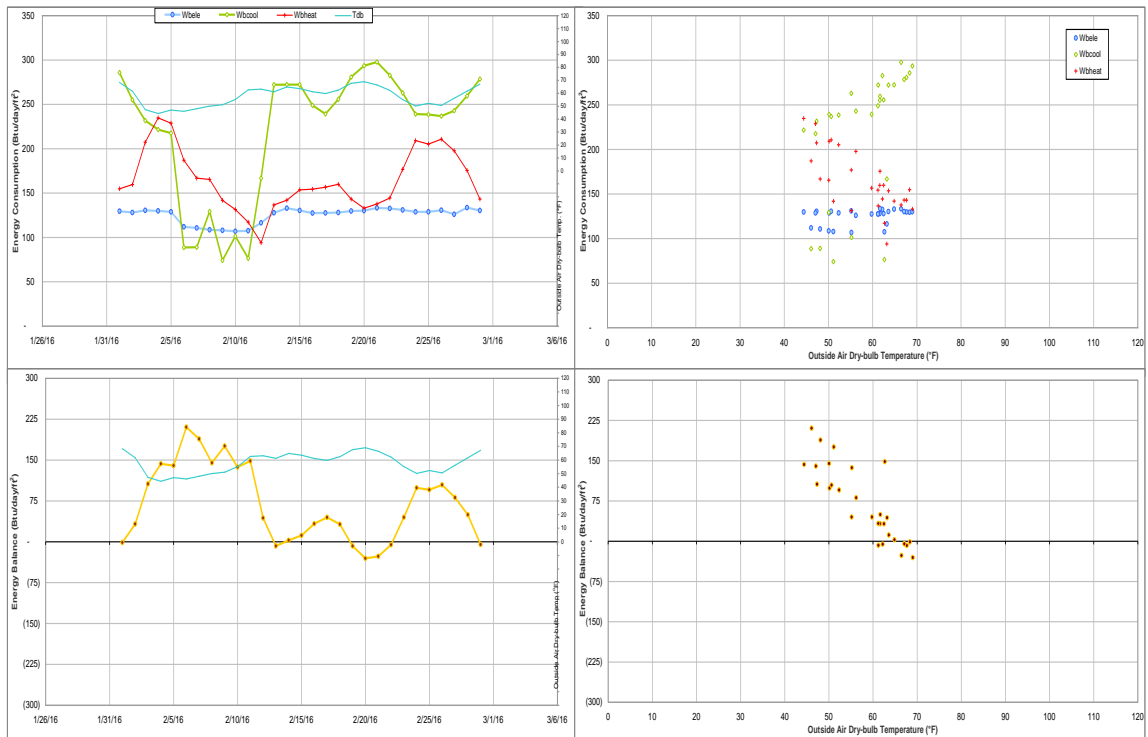


Figure IV-48 Krueger Residence Hall TAMU BLDG # 441 Energy Balance Plot during February 2016

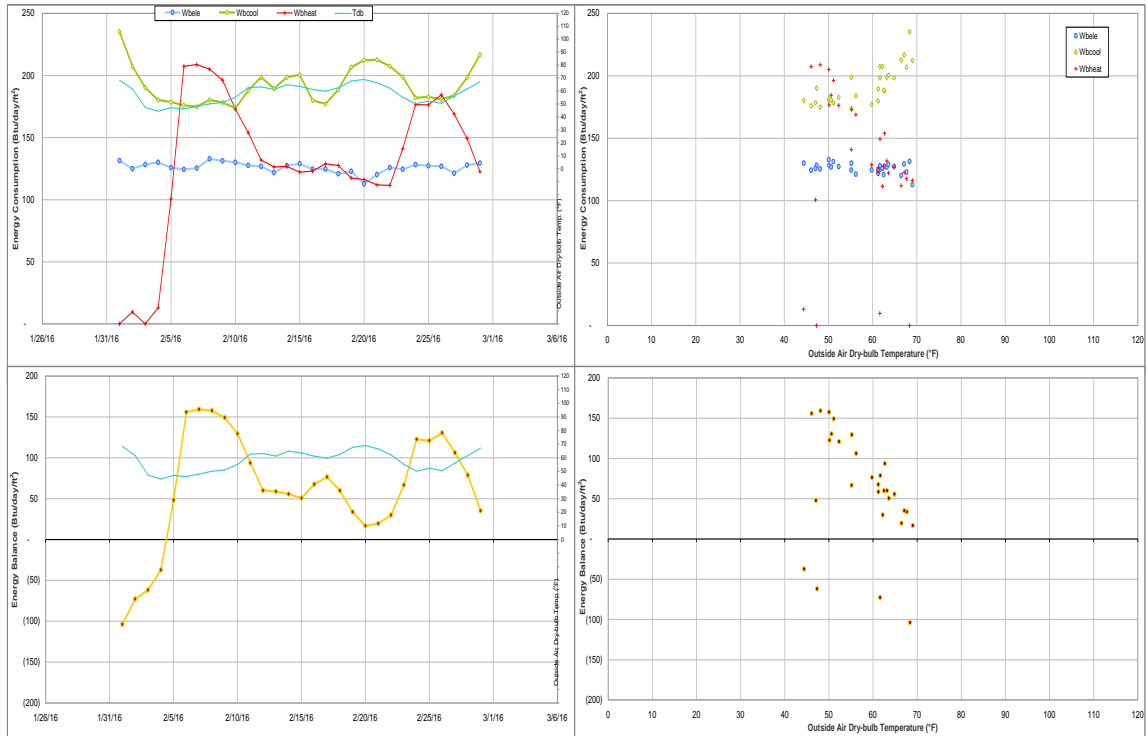


Figure IV-49 Dunn Residence Hall TAMU BLDG # 442 Energy Balance Plot during February 2016

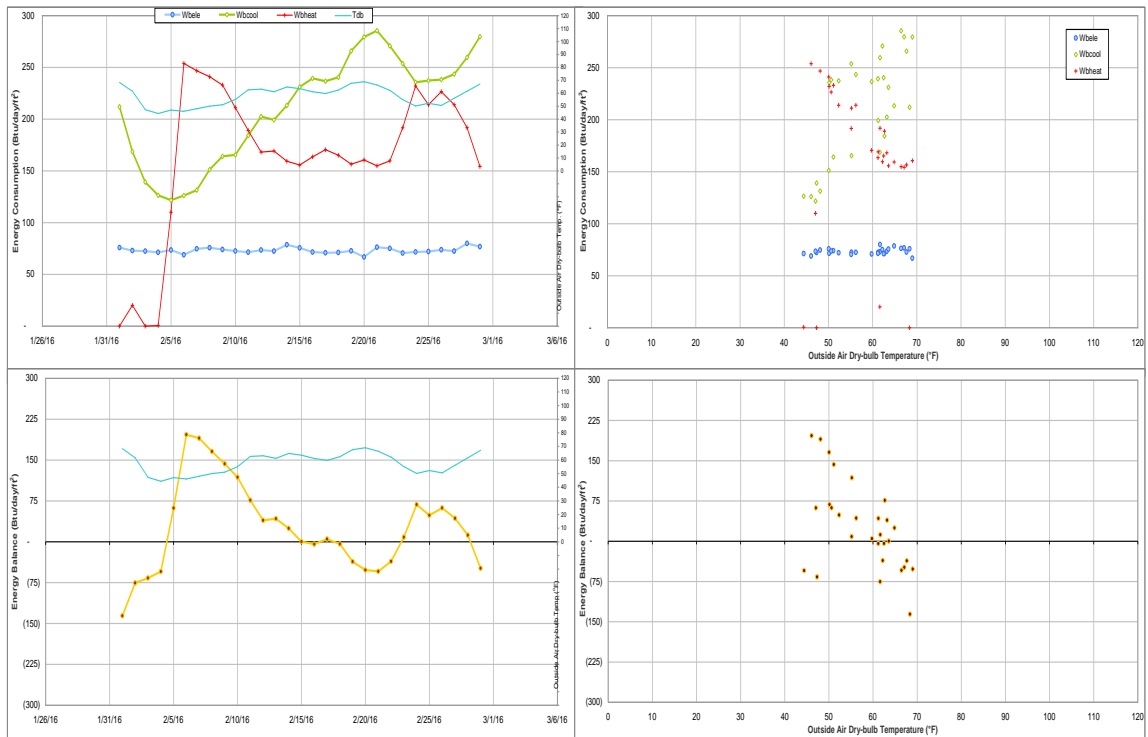


Figure IV-50 Aston Residence Hall TAMU BLDG # 447 Energy Balance Plot during February 2016

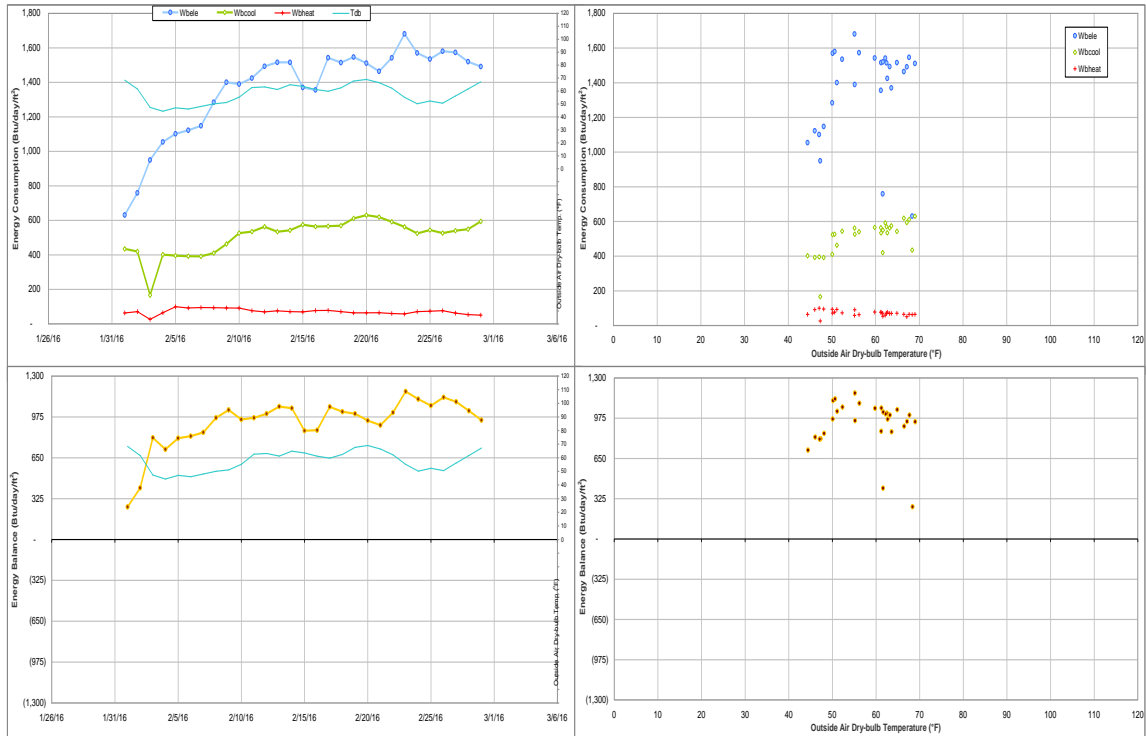


Figure IV-51 Luedcke Building (Cyclotron) TAMU BLDG # 434 Energy Balance Plot during February 2016

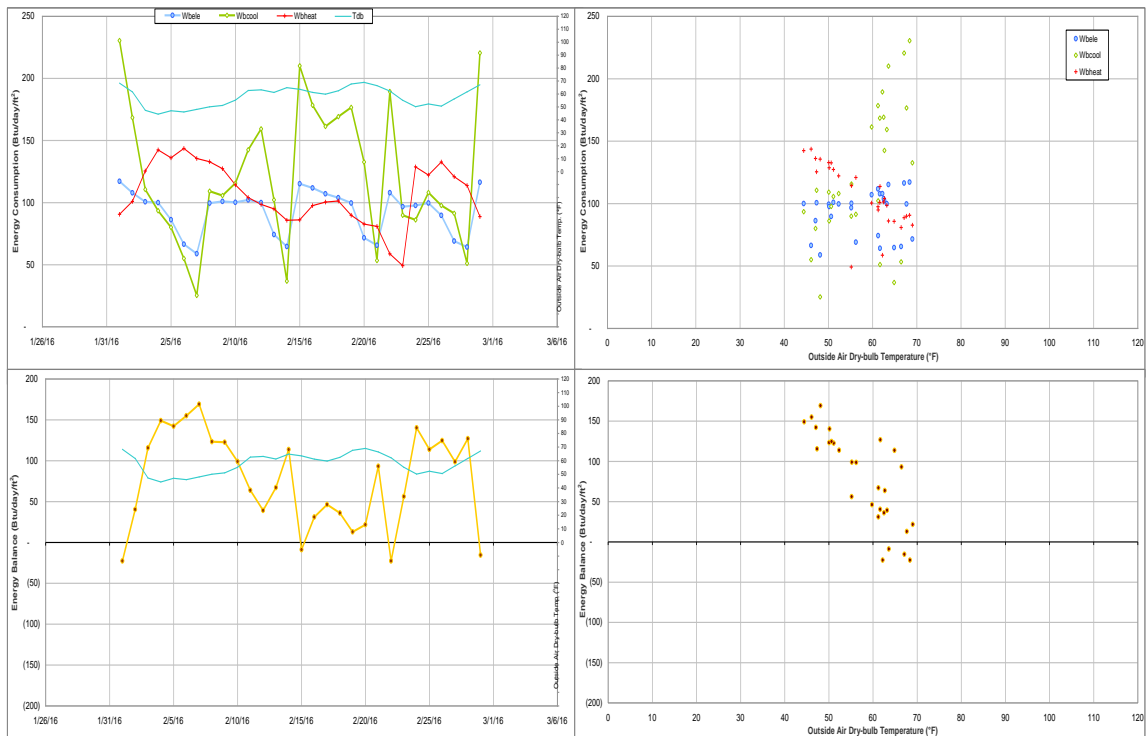


Figure IV-52 Harrington Education Center Office Tower TAMU BLDG # 435 Energy Balance Plot during February 2016

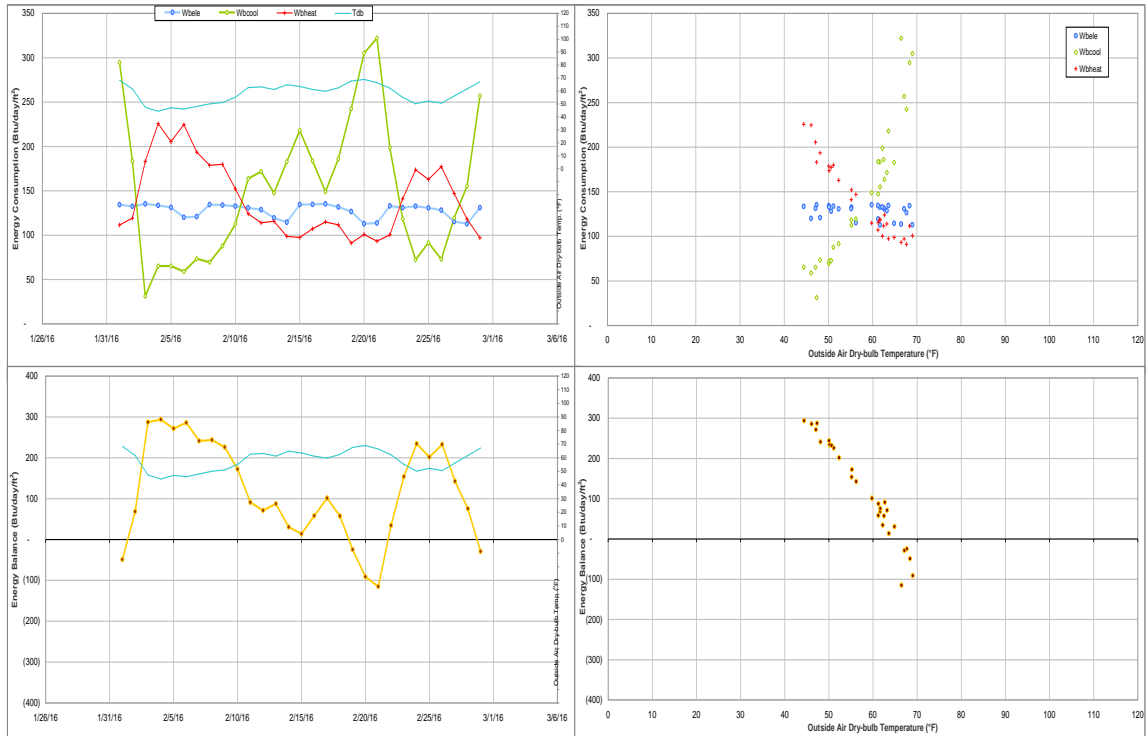


Figure IV-53 Reed-McDonald and Engineering Innovation Center TAMU BLDG # 436-499 Energy Balance Plot during February 2016

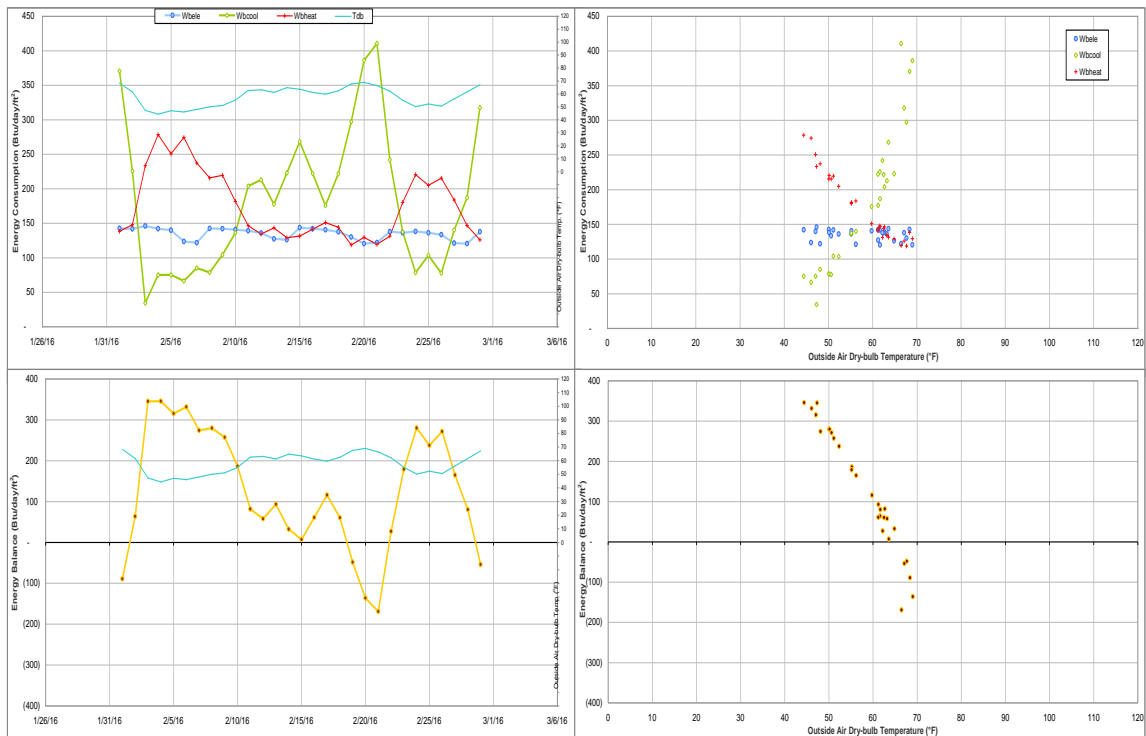


Figure IV-54 Reed-McDonald Building TAMU BLDG # 436 Energy Balance Plot during February 2016

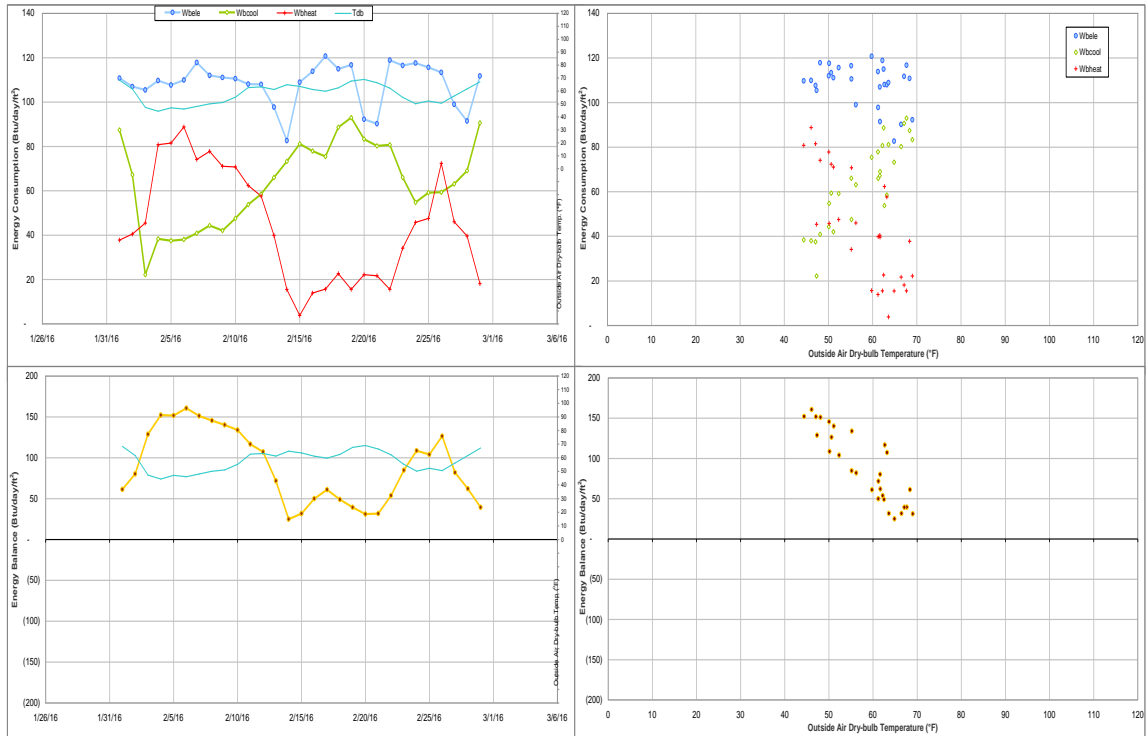


Figure IV-55 Engineering Innovation Center TAMU BLDG # 499 Energy Balance Plot during February 2016

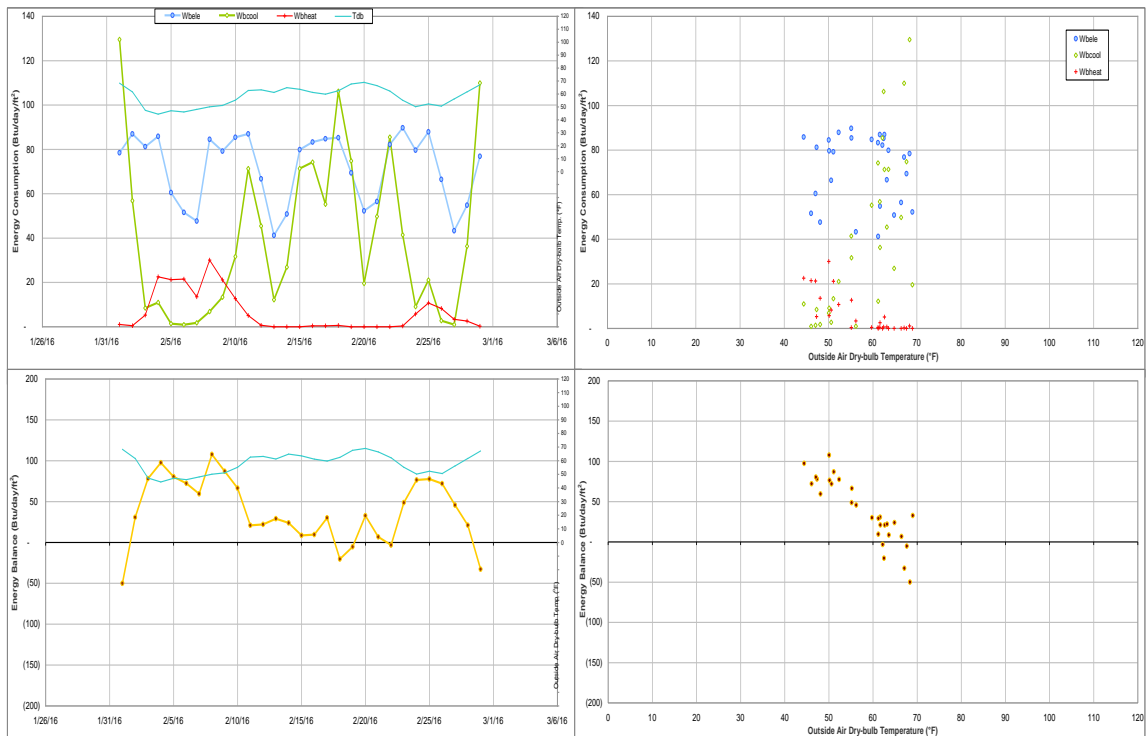


Figure IV-56 Harrington Education Center Classroom Building TAMU BLDG # 438 Energy Balance Plot during February 2016

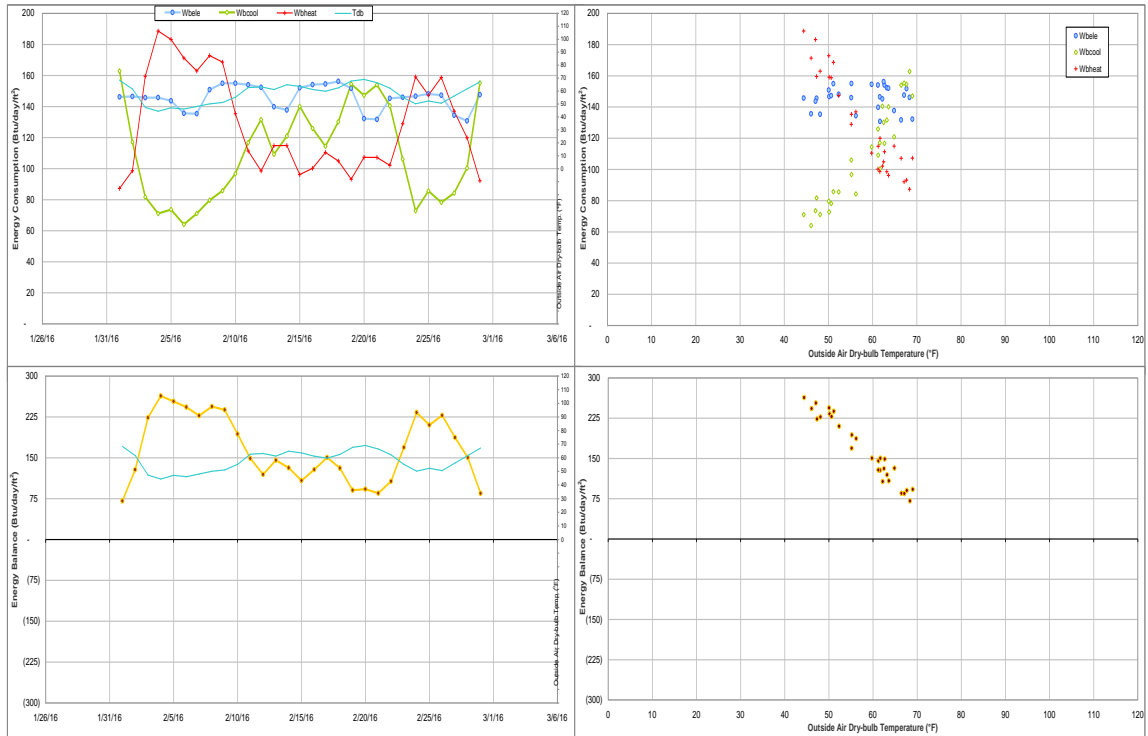


Figure IV-57 Oceanography & Meteorology Building TAMU BLDG # 443 Energy Balance Plot during February 2016

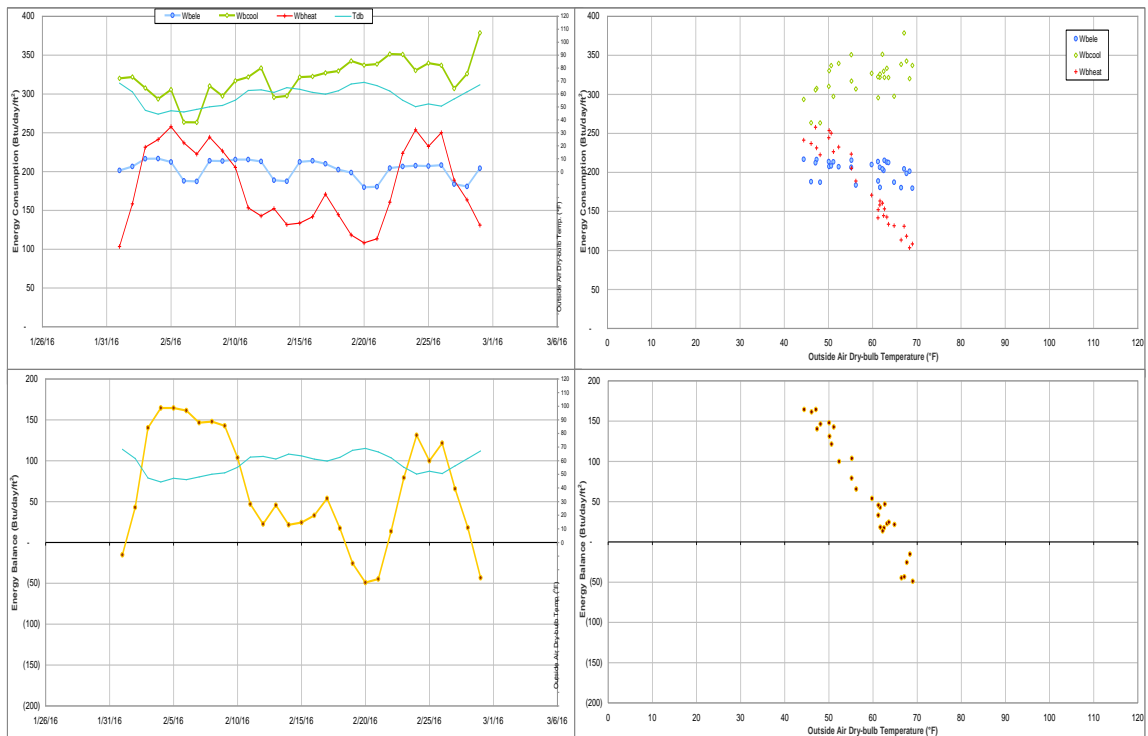


Figure IV-58 Peterson Building TAMU BLDG # 444 Energy Balance Plot during February 2016

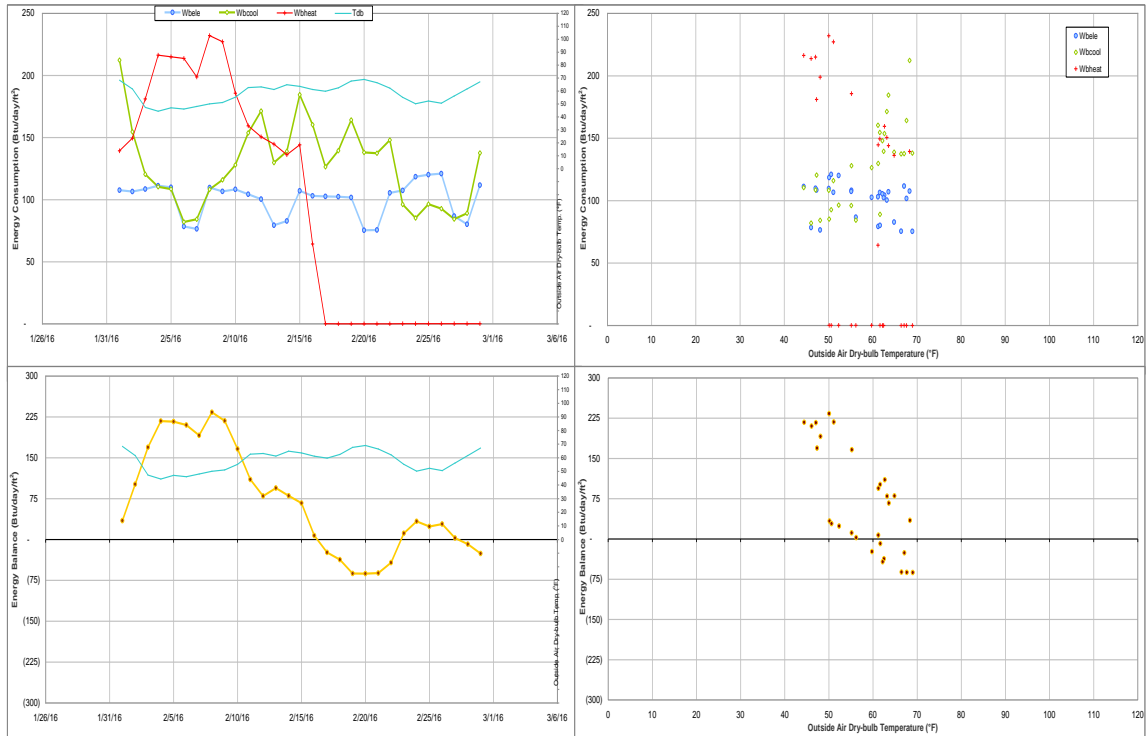


Figure IV-59 Teague Research Center and DPC Annex TAMU BLDG # 445-517 Energy Balance Plot during February 2016

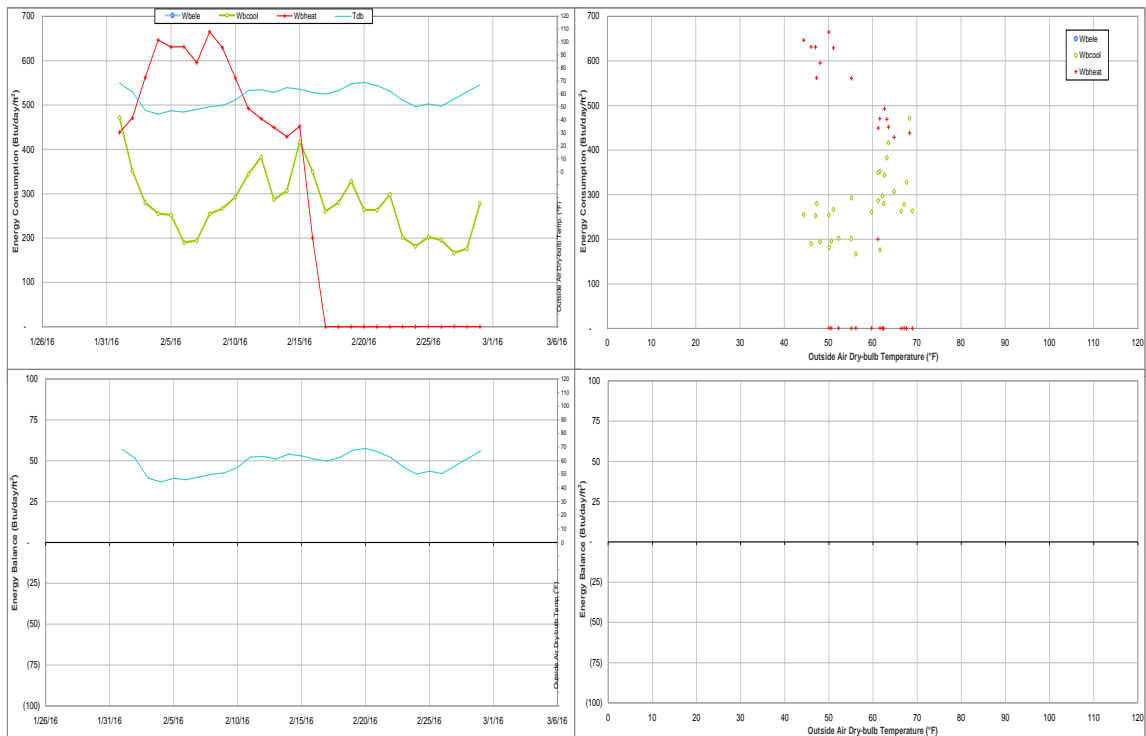


Figure IV-60 DPC Annex TAMU BLDG # 517 Energy Balance Plot during February 2016

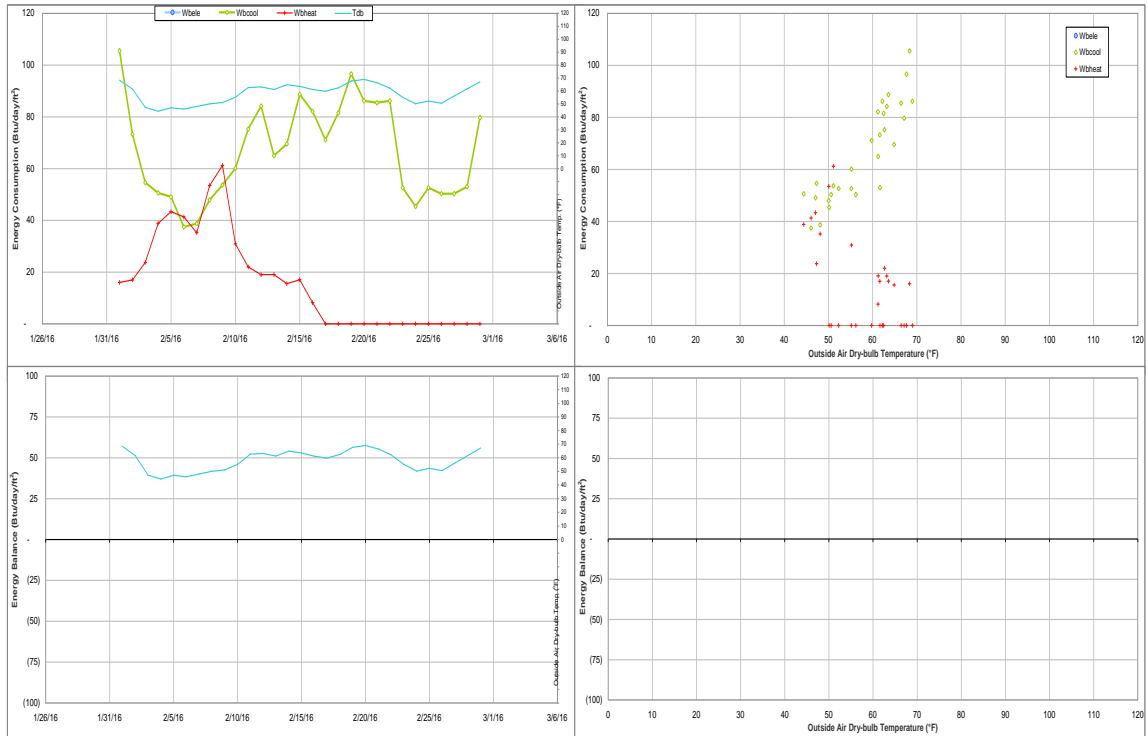


Figure IV-61 Teague Research Center TAMU BLDG # 445 Energy Balance Plot during February 2016

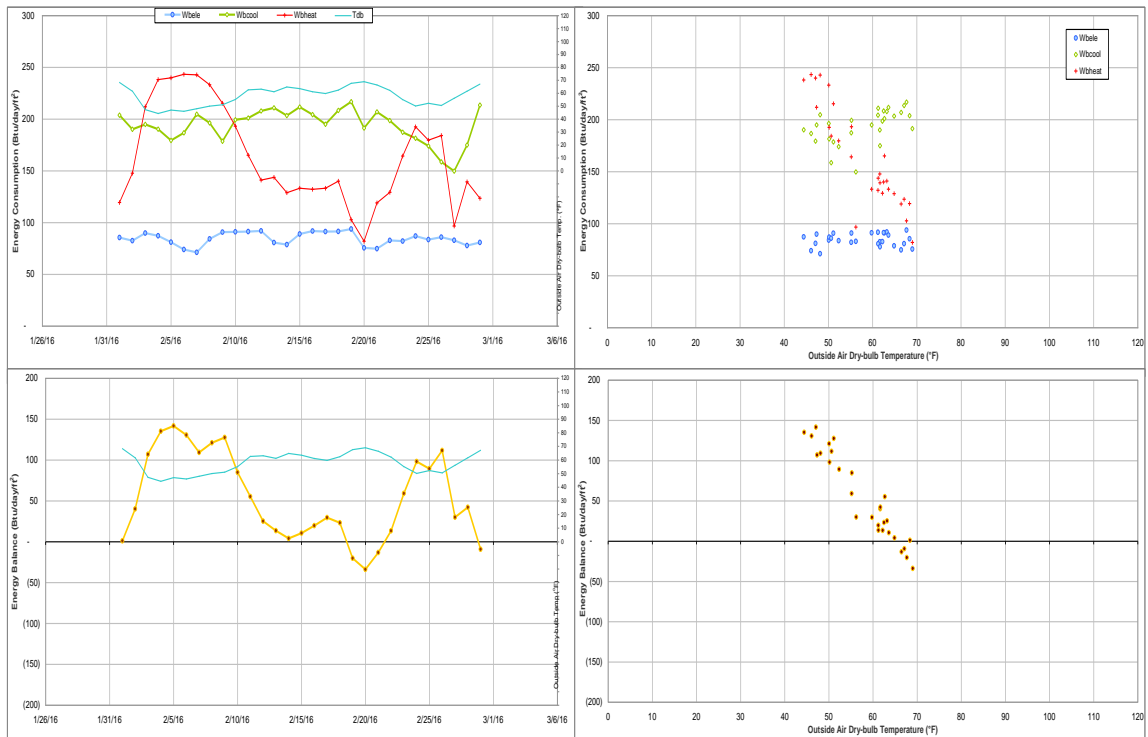


Figure IV-62 Rudder Tower and Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2016

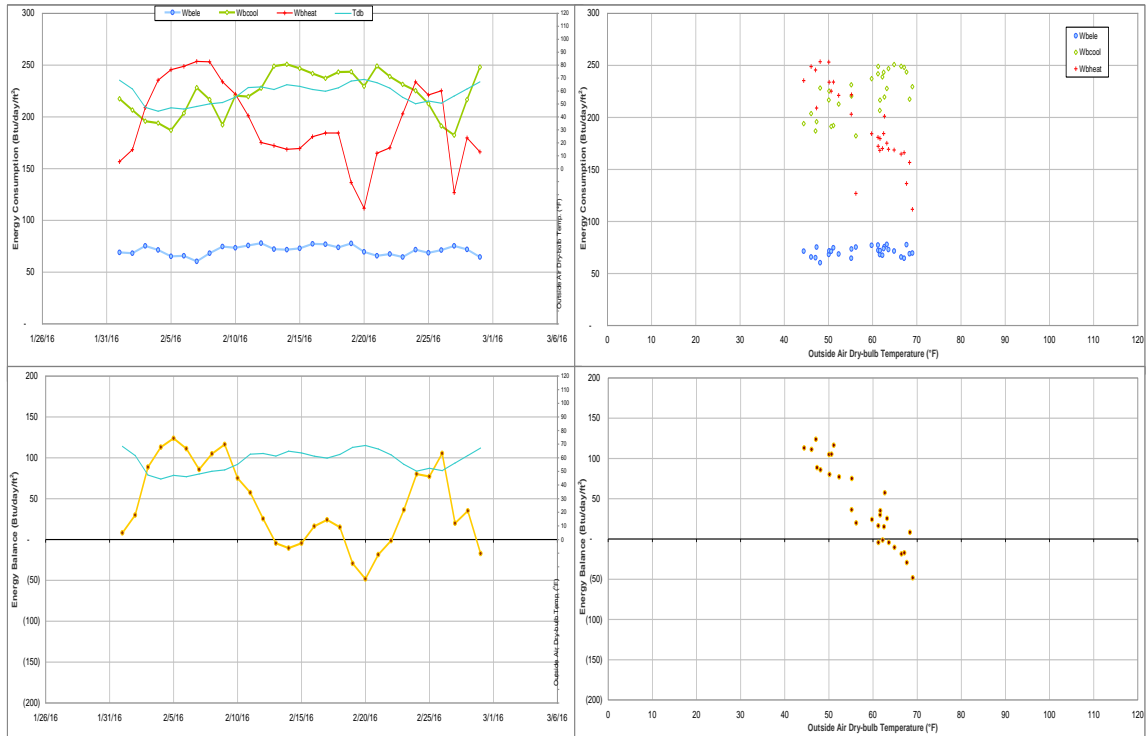


Figure IV-63 Rudder Theatre Complex TAMU BLDG # 446 Energy Balance Plot during February 2016

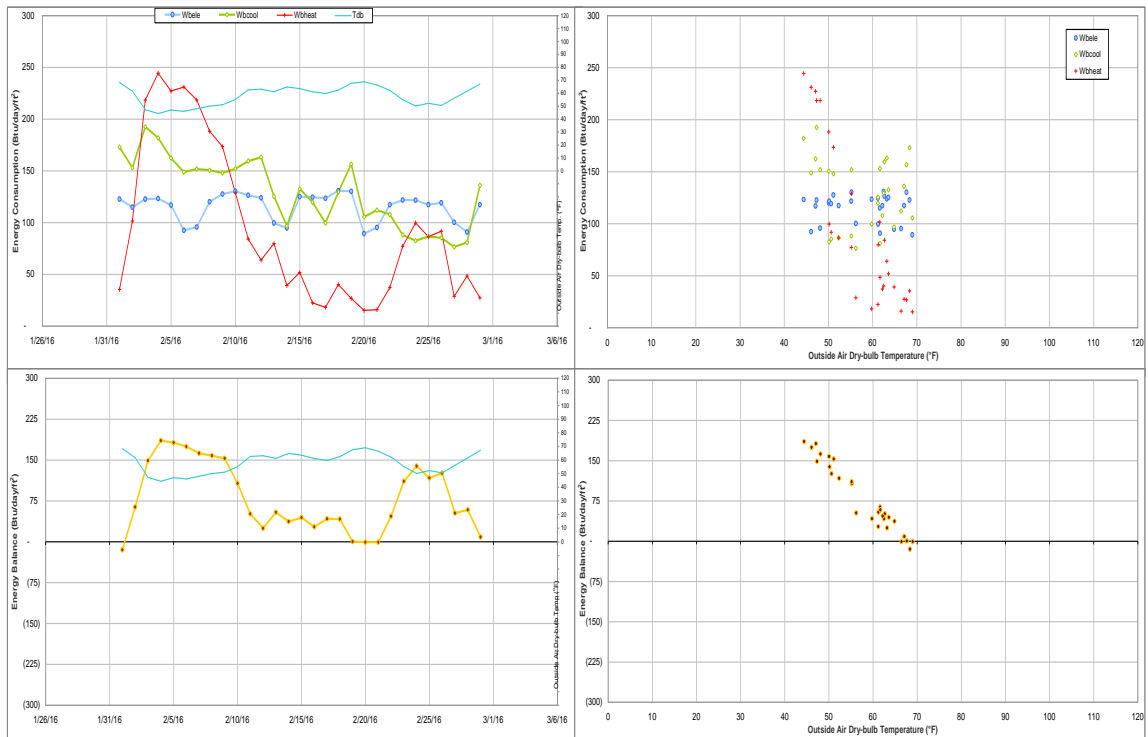


Figure IV-64 Rudder Tower TAMU BLDG # 446 Energy Balance Plot during February 2016

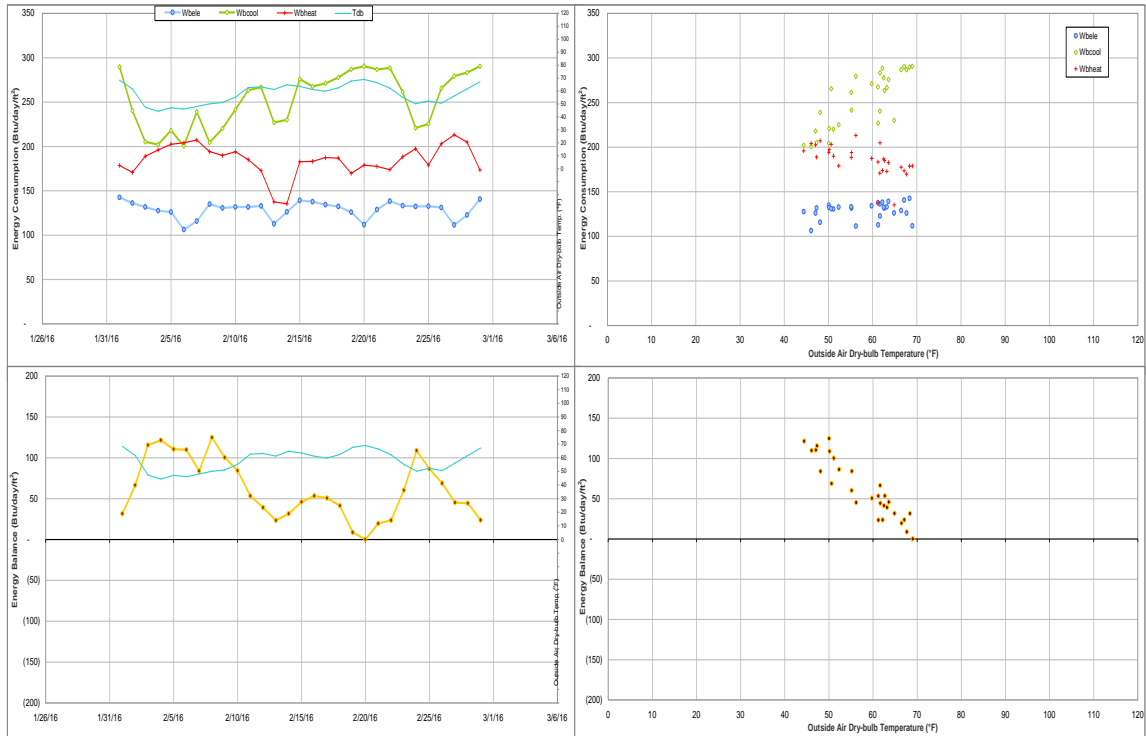


Figure IV-65 Adams Band Hall TAMU BLDG # 448 Energy Balance Plot during February 2016

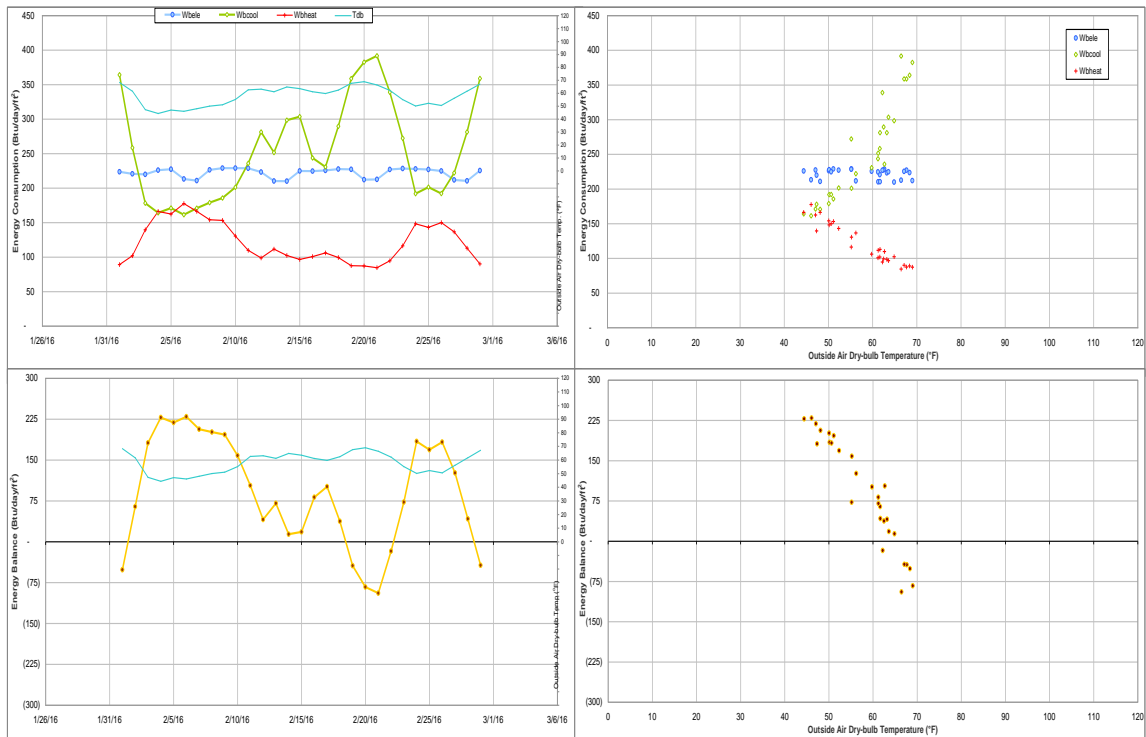


Figure IV-66 Biological Sciences Building - West TAMU BLDG # 449 Energy Balance Plot during February 2016

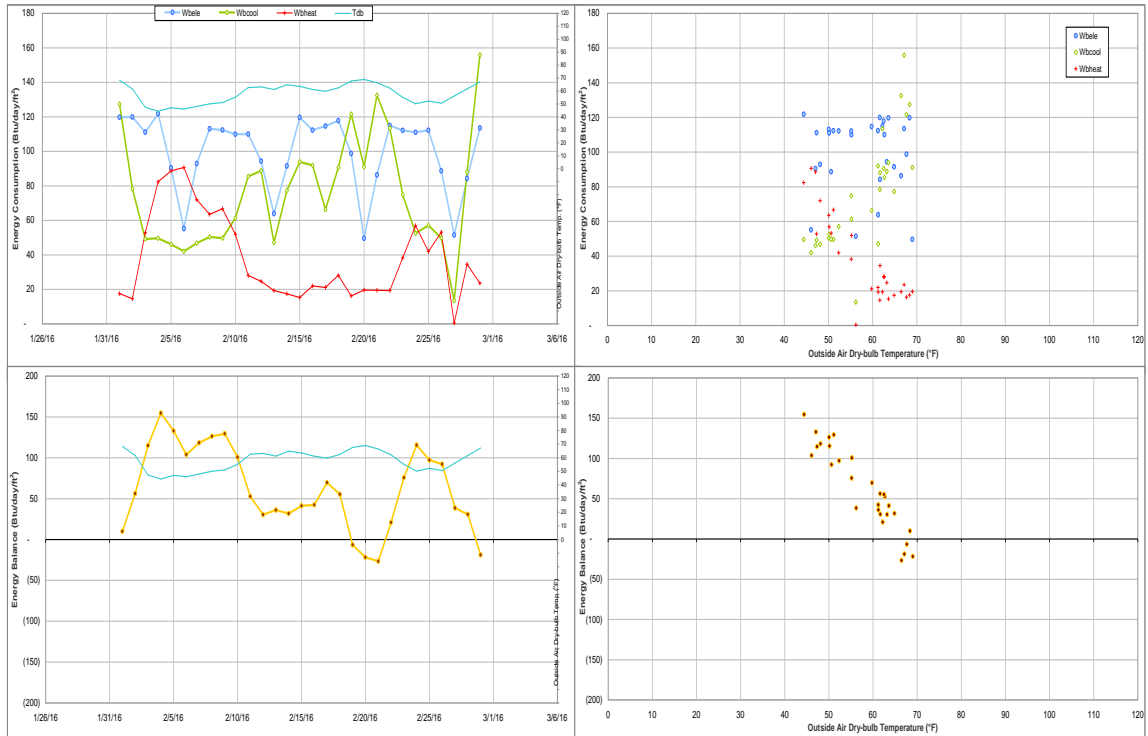


Figure IV-67 Duncan Dining Hall TAMU BLDG # 450 Energy Balance Plot during February 2016

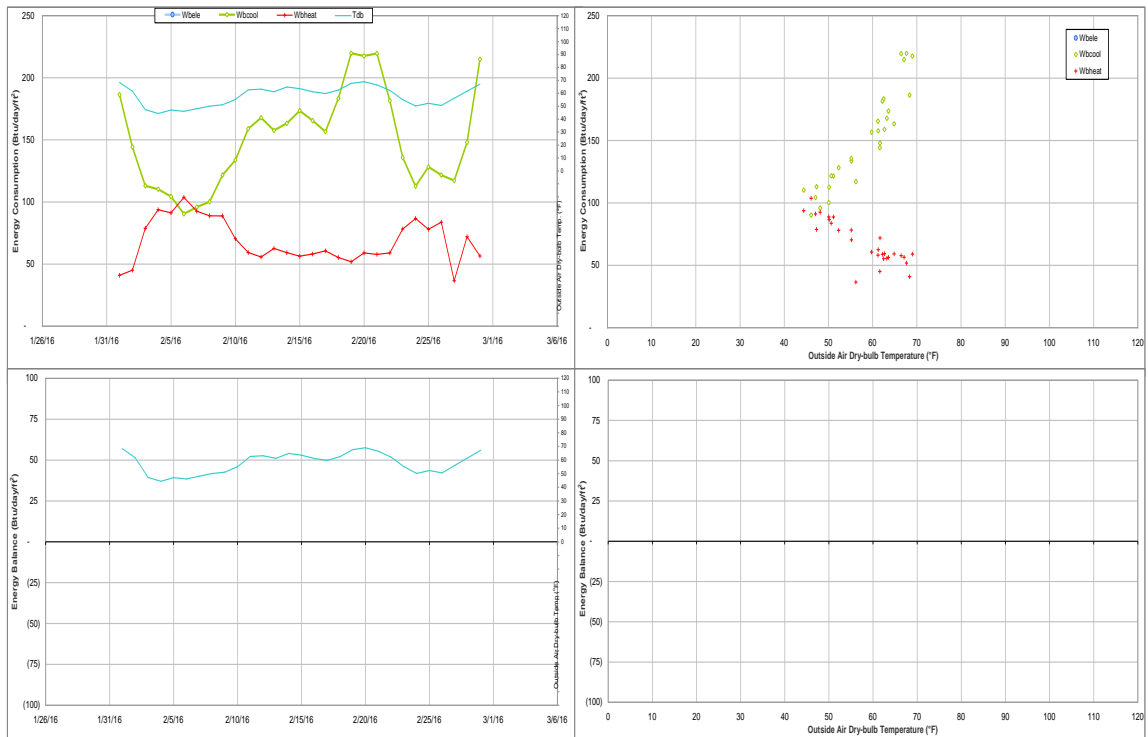


Figure IV-68 MSC TAMU BLDG # 454 Energy Balance Plot during February 2016

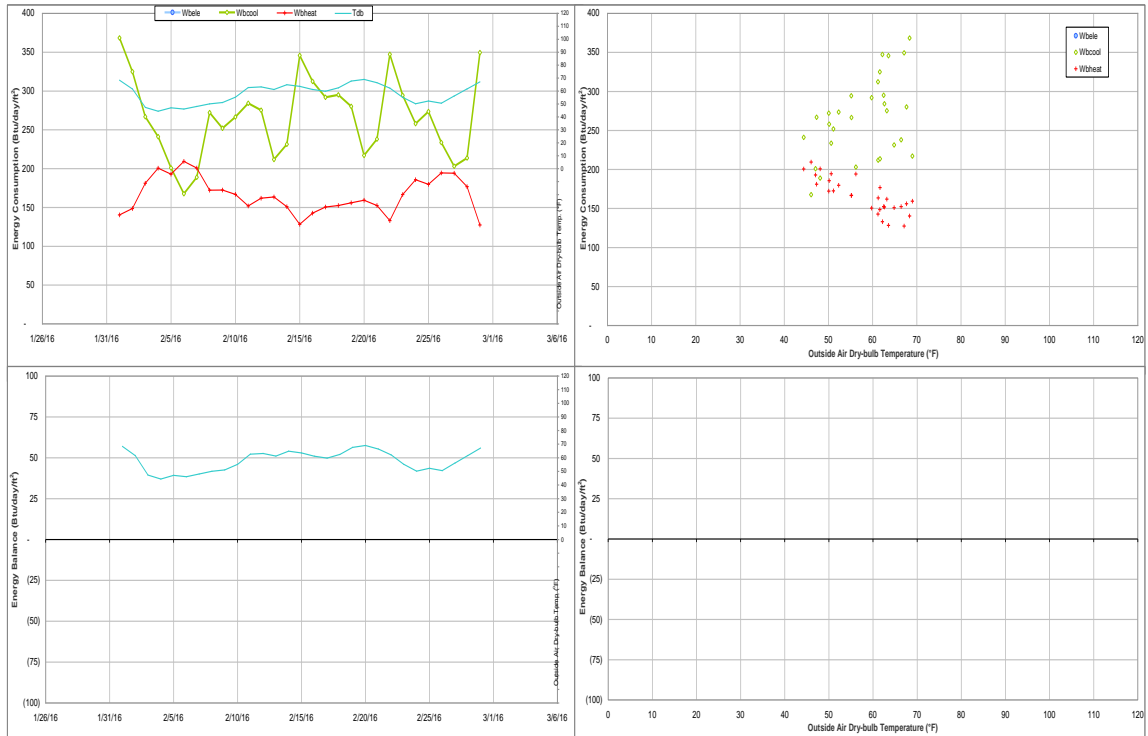


Figure IV-69 Military Sciences Building TAMU BLDG # 456 Energy Balance Plot during February 2016

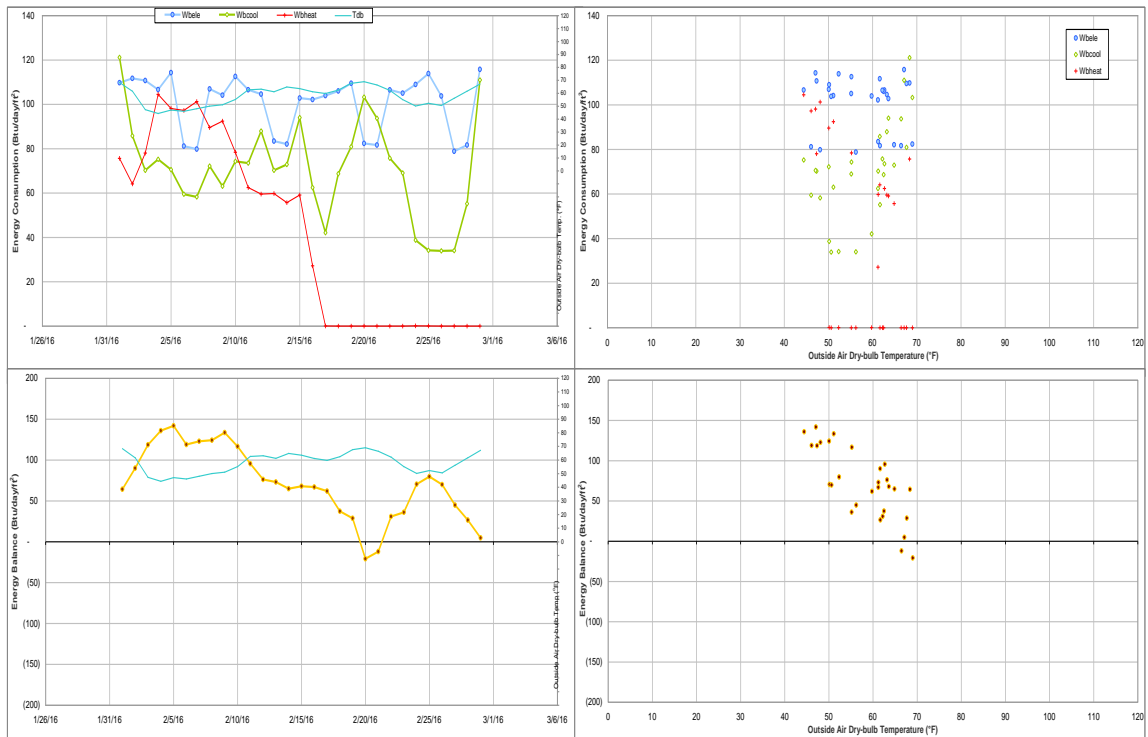


Figure IV-70 TAES Annex Building TAMU BLDG # 457 Energy Balance Plot during February 2016

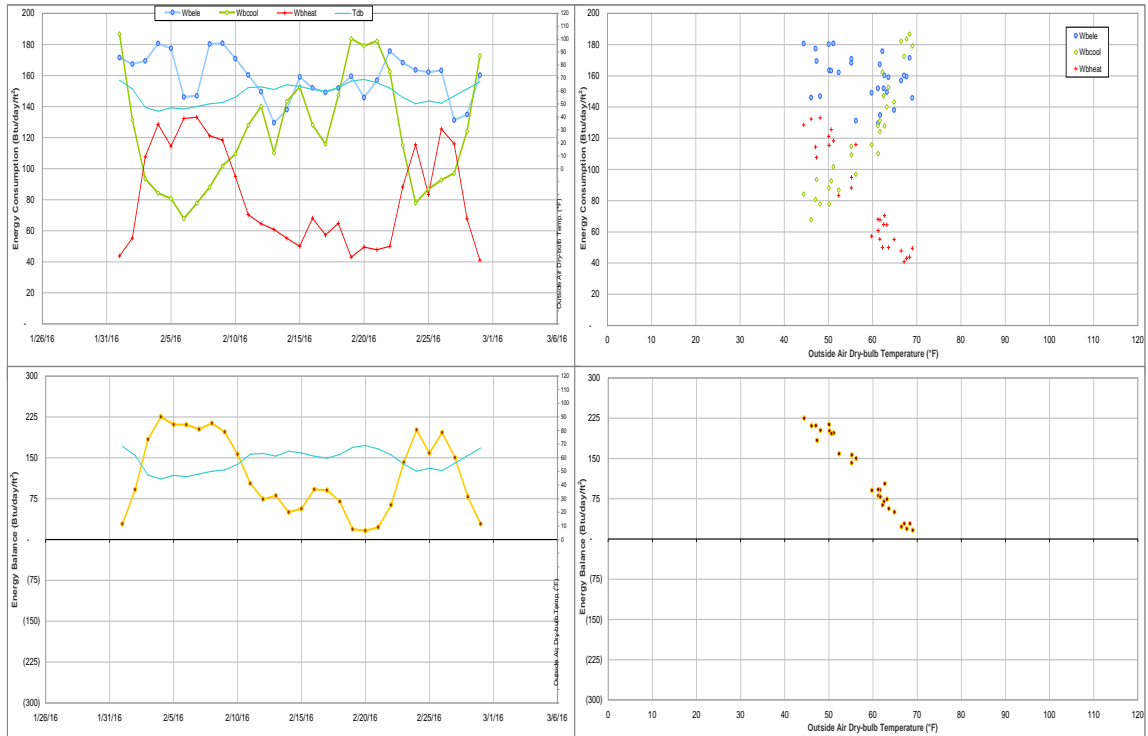


Figure IV-71 Coke Building TAMU BLDG # 461 Energy Balance Plot during February 2016

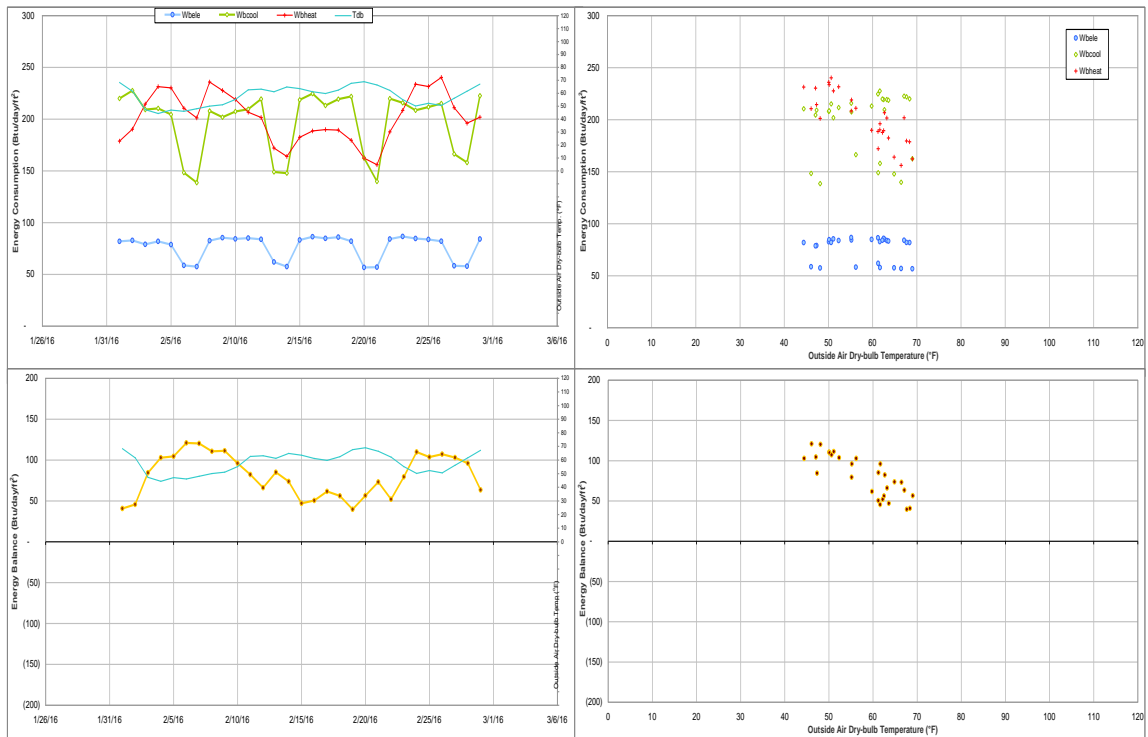


Figure IV-72 Academic Building TAMU BLDG # 462 Energy Balance Plot during February 2016

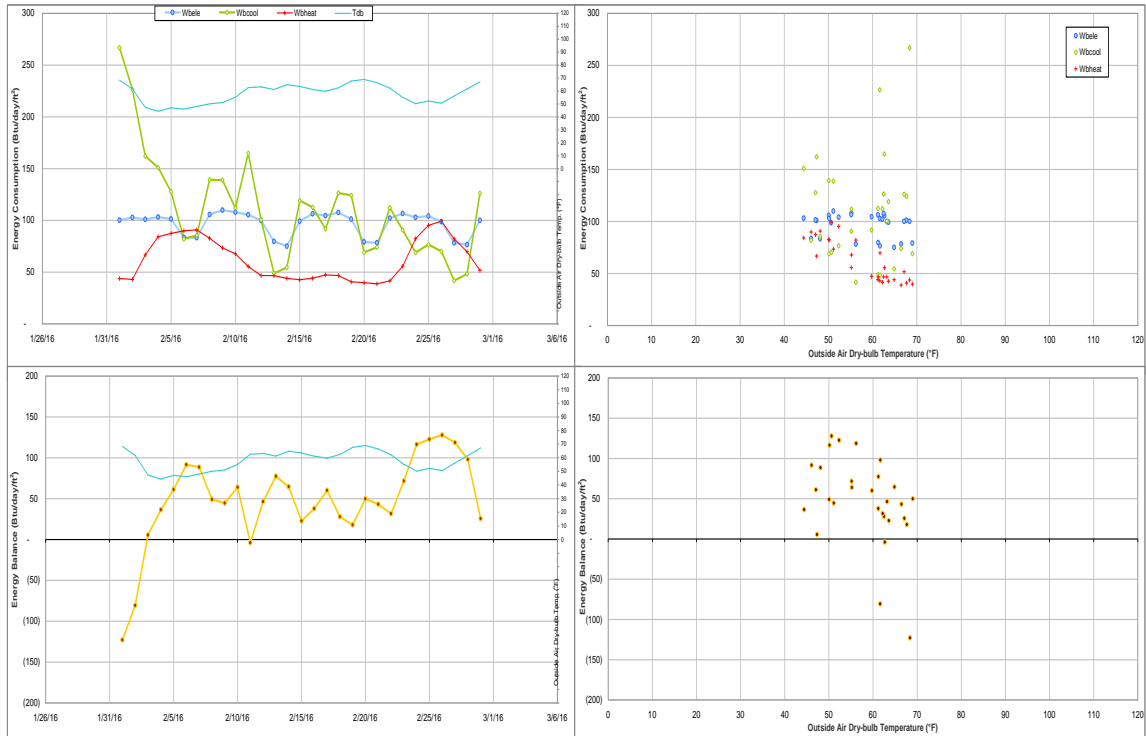


Figure IV-73 Psychology Building TAMU BLDG # 463 Energy Balance Plot during February 2016

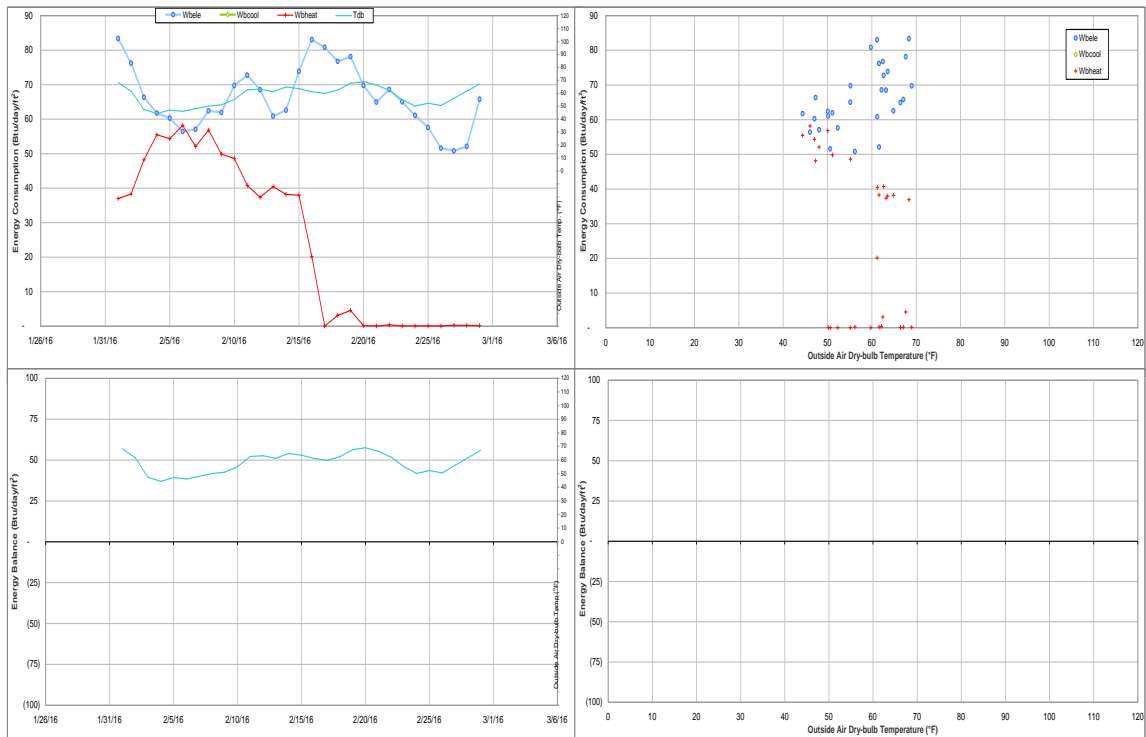


Figure IV-74 State Chemist Building TAMU BLDG # 464 Energy Balance Plot during February 2016

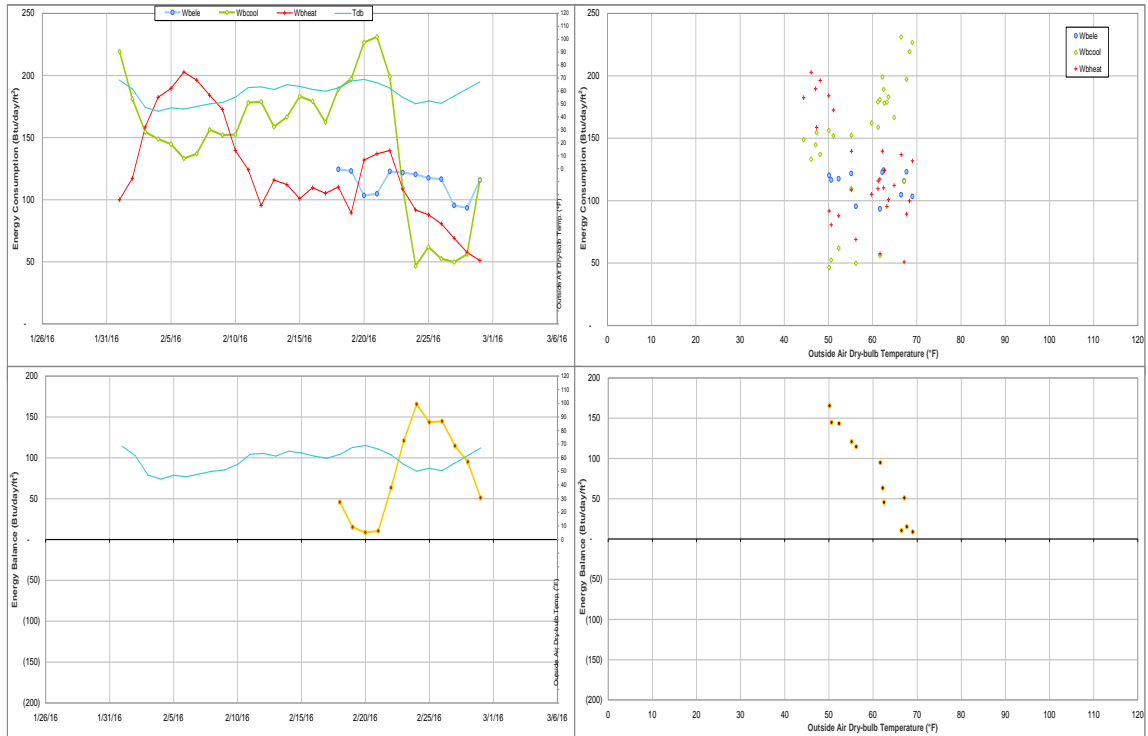


Figure IV-75 Butler Hall TAMU BLDG # 465 Energy Balance Plot during February 2016

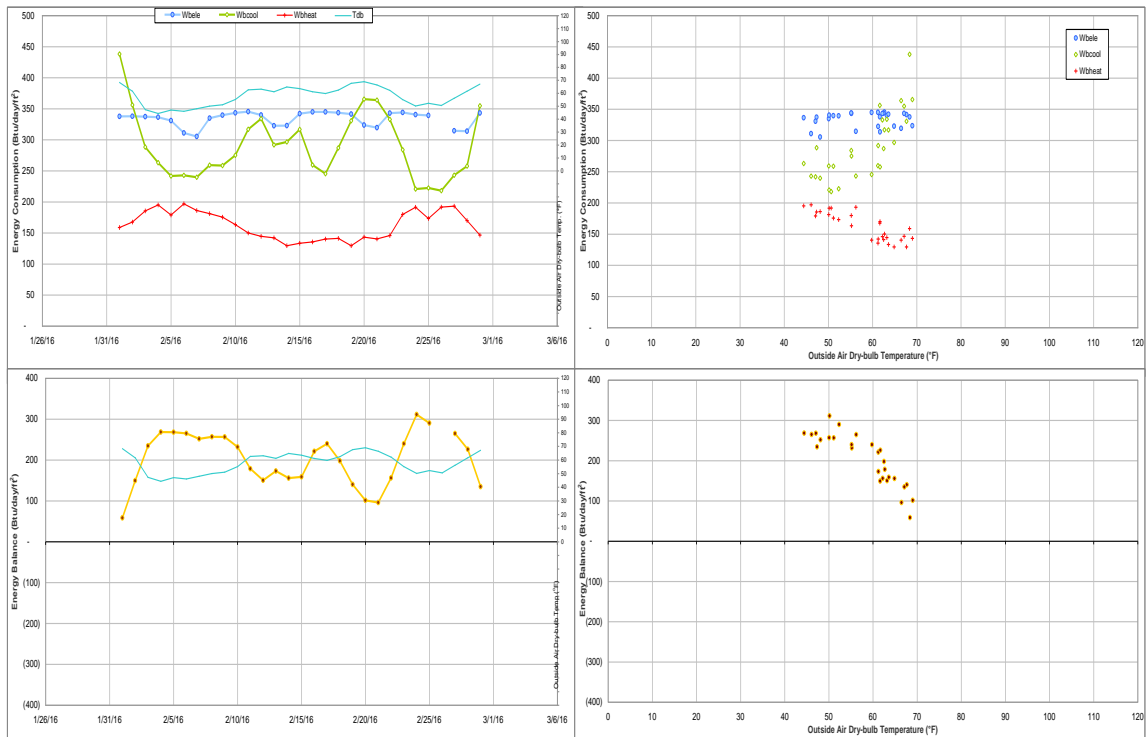


Figure IV-76 Biological Sciences Building - East TAMU BLDG # 467 Energy Balance Plot during February 2016

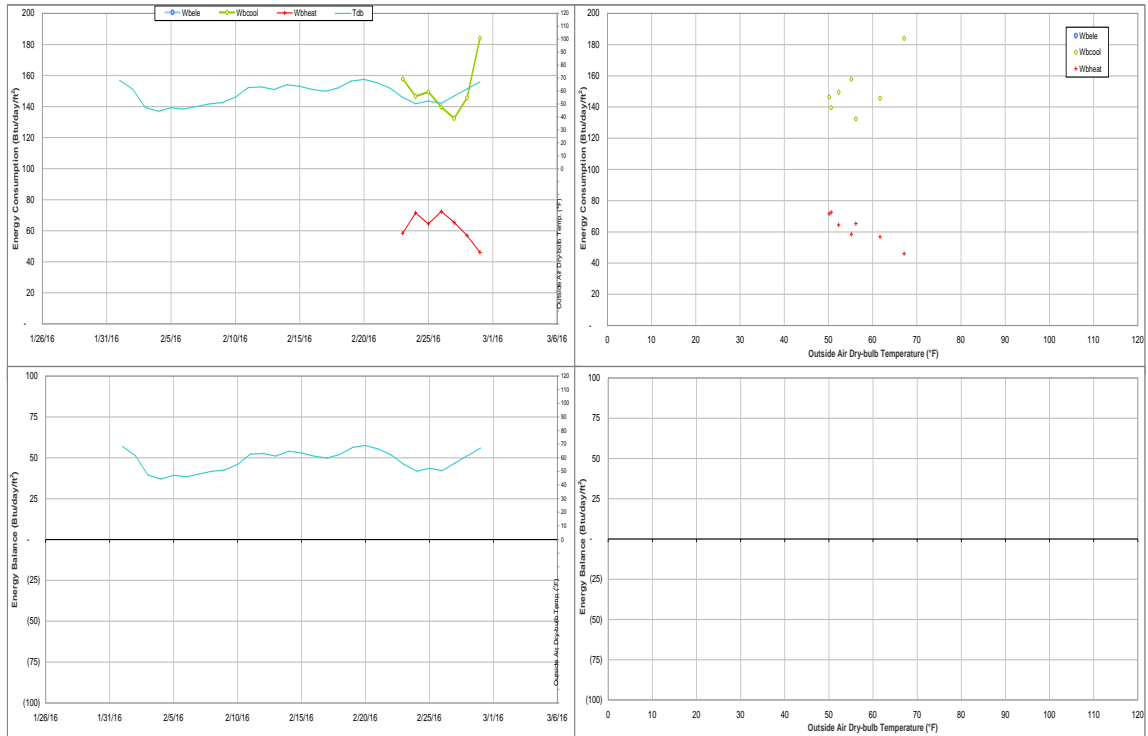


Figure IV-77 Evans Library TAMU BLDG # 468 Energy Balance Plot during February 2016

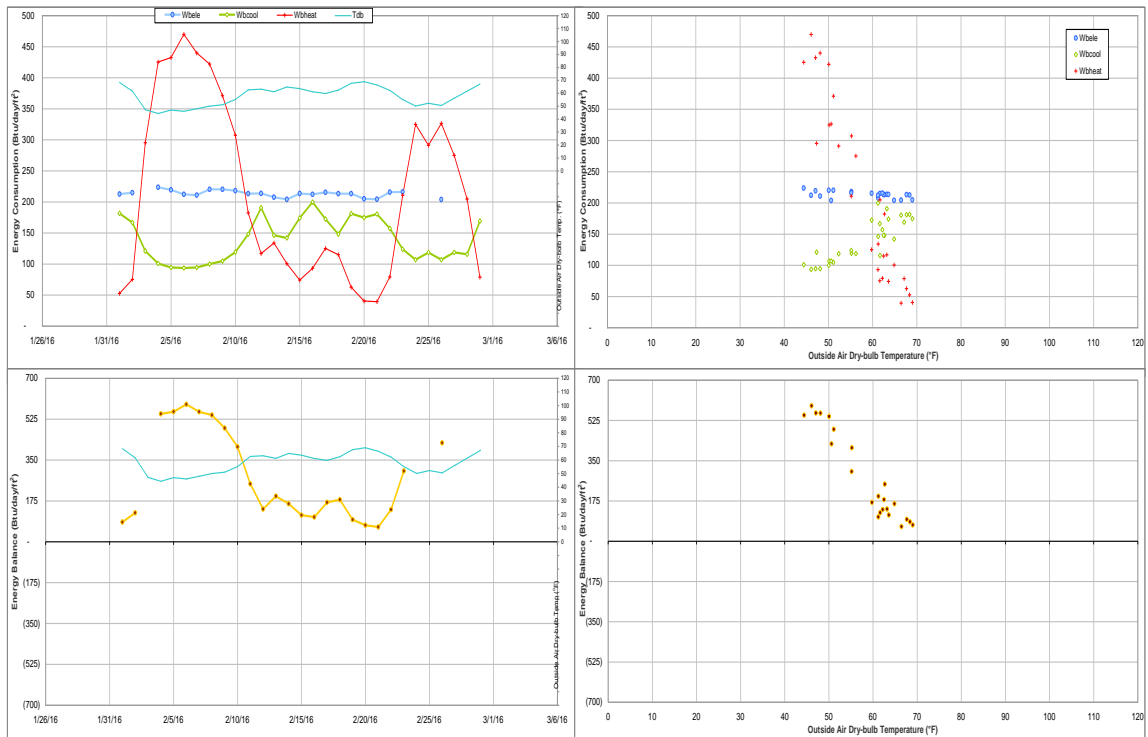


Figure IV-78 Central Campus Parking Garage TAMU BLDG # 469 Energy Balance Plot during February 2016

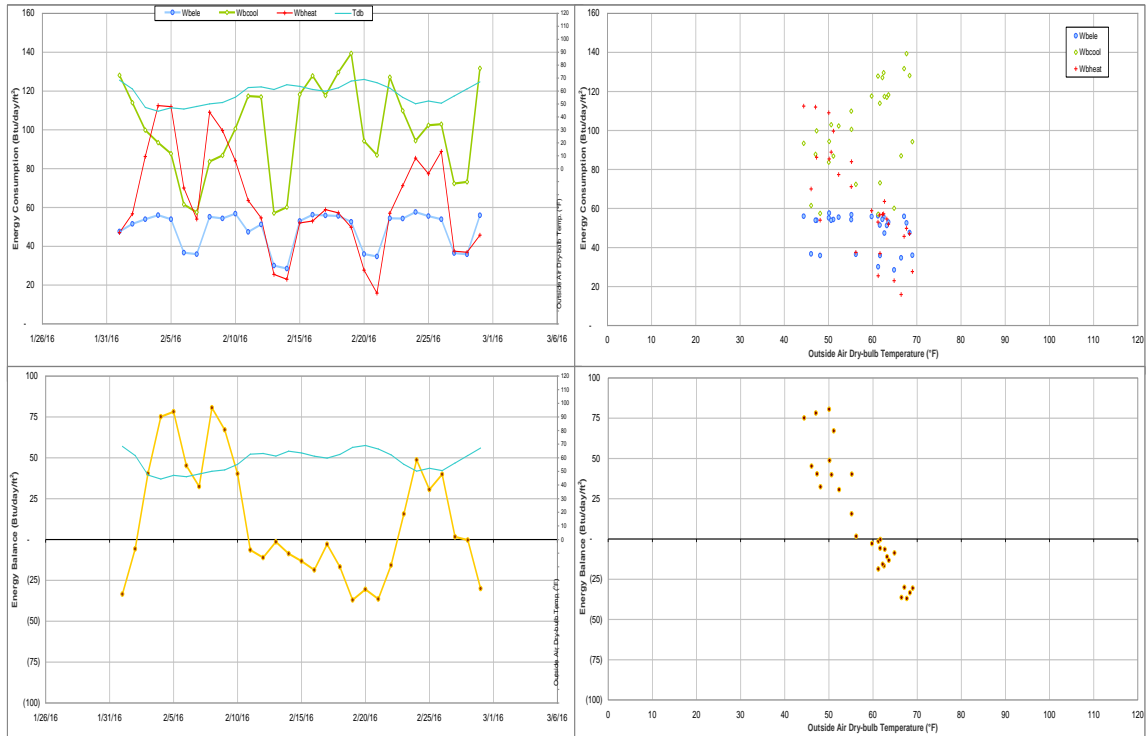


Figure IV-79 Glasscock History Bldg TAMU BLDG # 470 Energy Balance Plot during February 2016

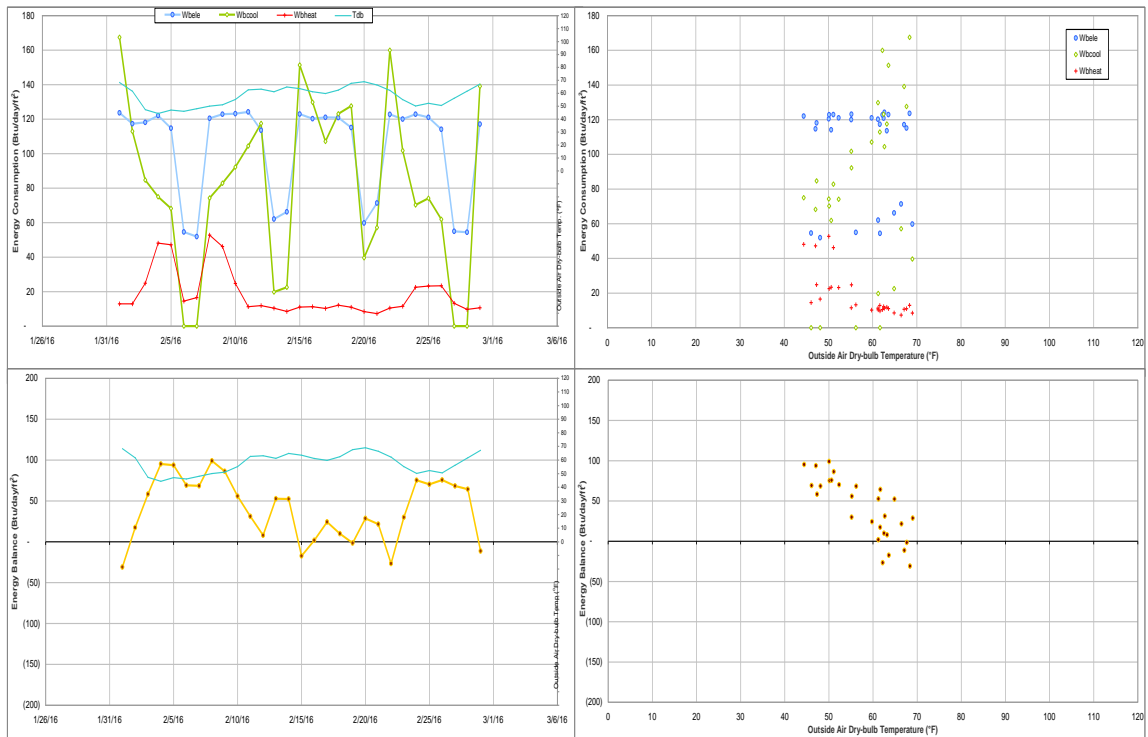


Figure IV-80 Pavilion TAMU BLDG # 471 Energy Balance Plot during February 2016

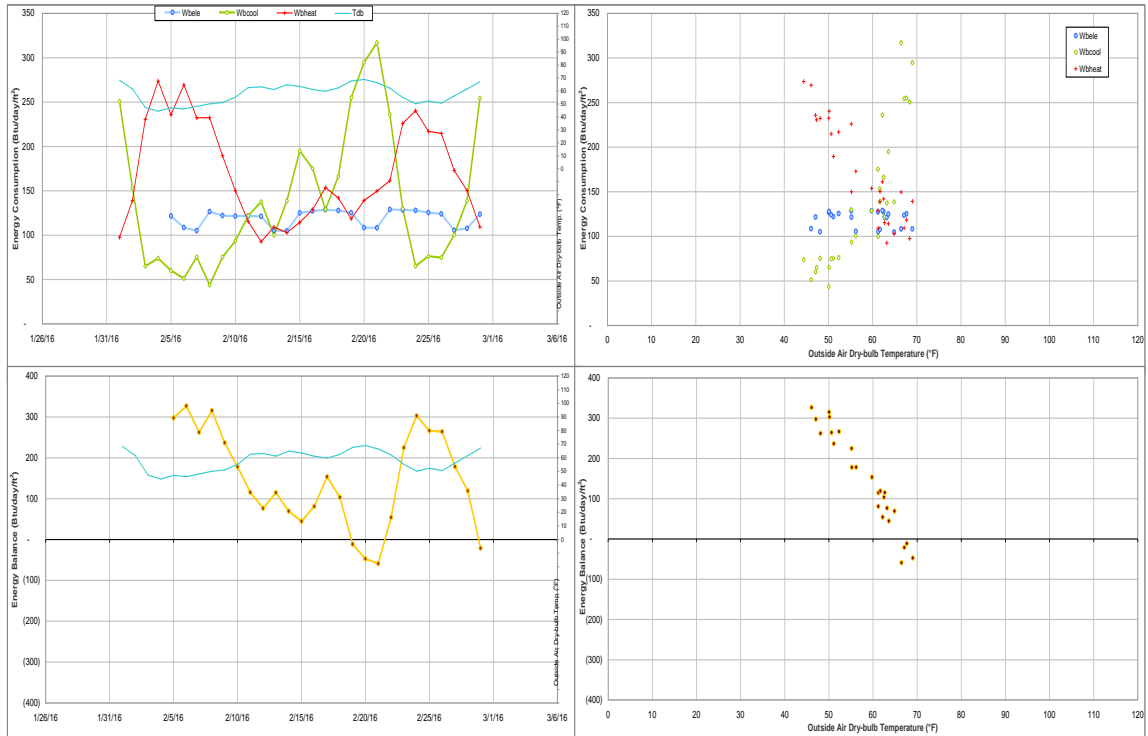


Figure IV-81 Animal Industries TAMU BLDG # 472 Energy Balance Plot during February 2016

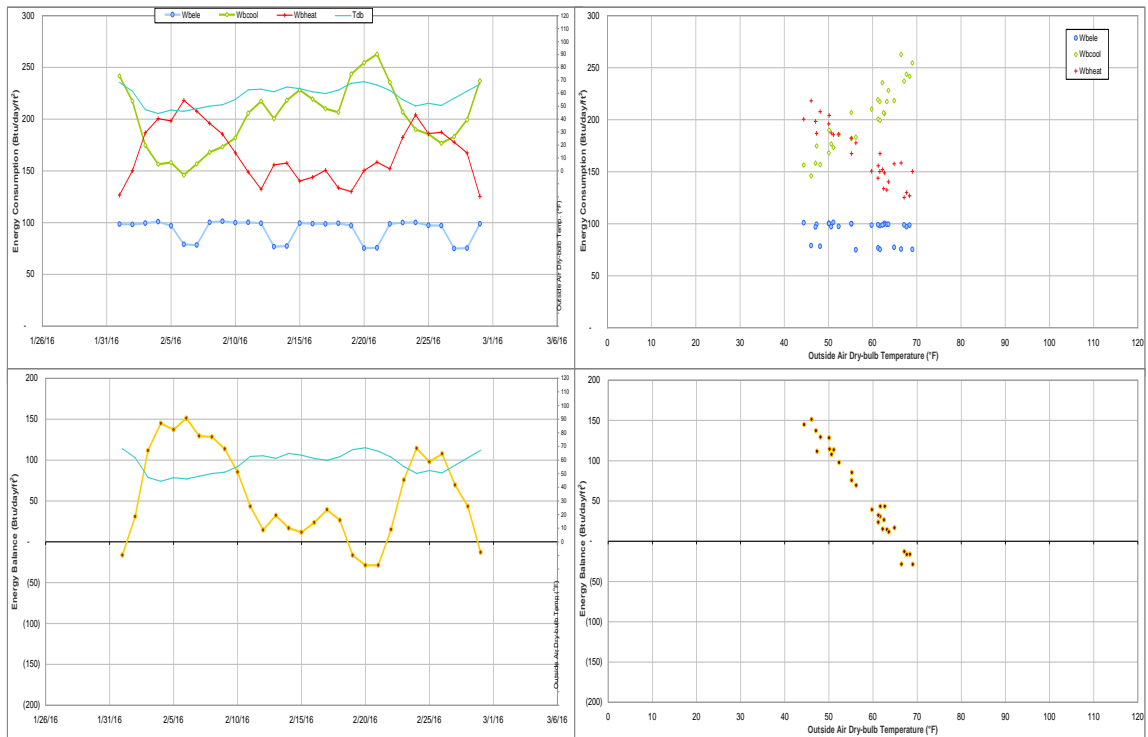


Figure IV-82 Williams Administration Building TAMU BLDG # 473 Energy Balance Plot during February 2016

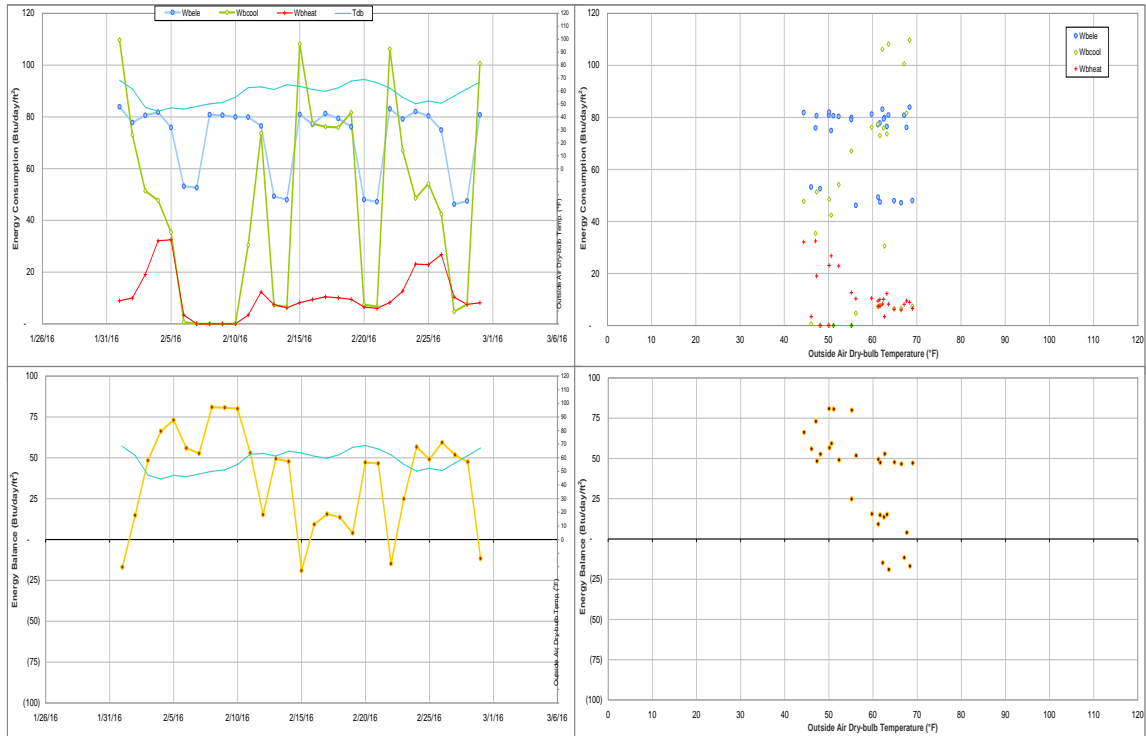


Figure IV-83 YMCA Building TAMU BLDG # 474 Energy Balance Plot during February 2016

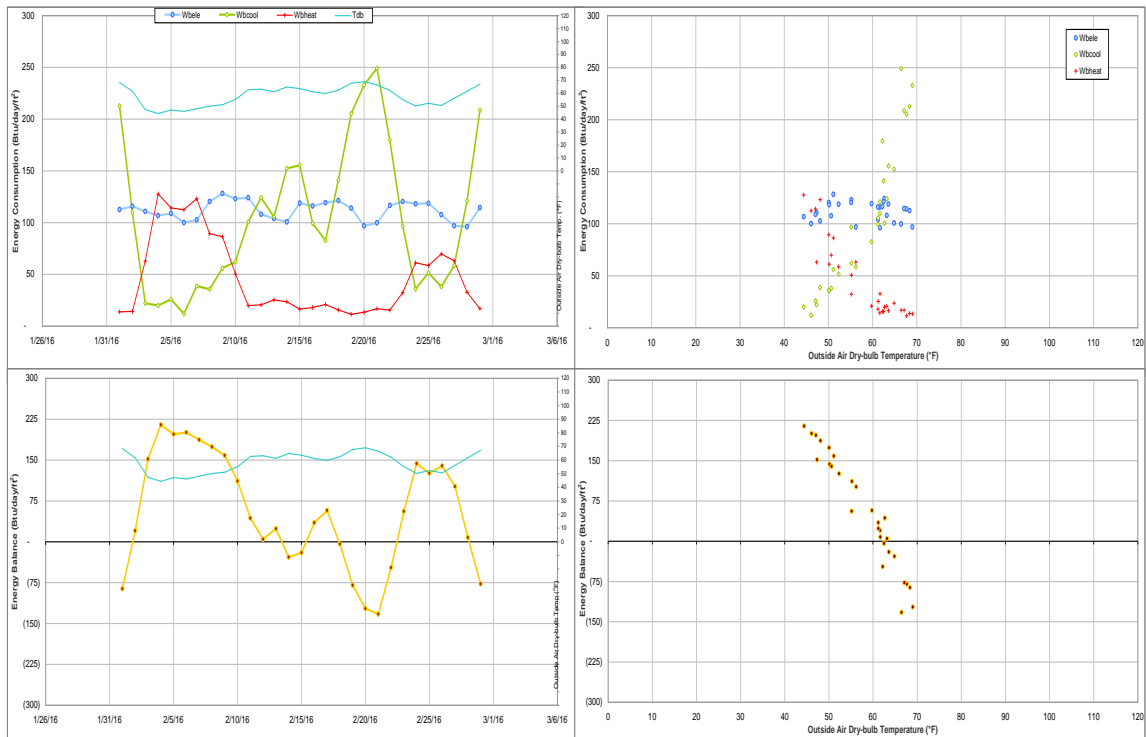


Figure IV-84 Francis Hall TAMU BLDG # 476 Energy Balance Plot during February 2016

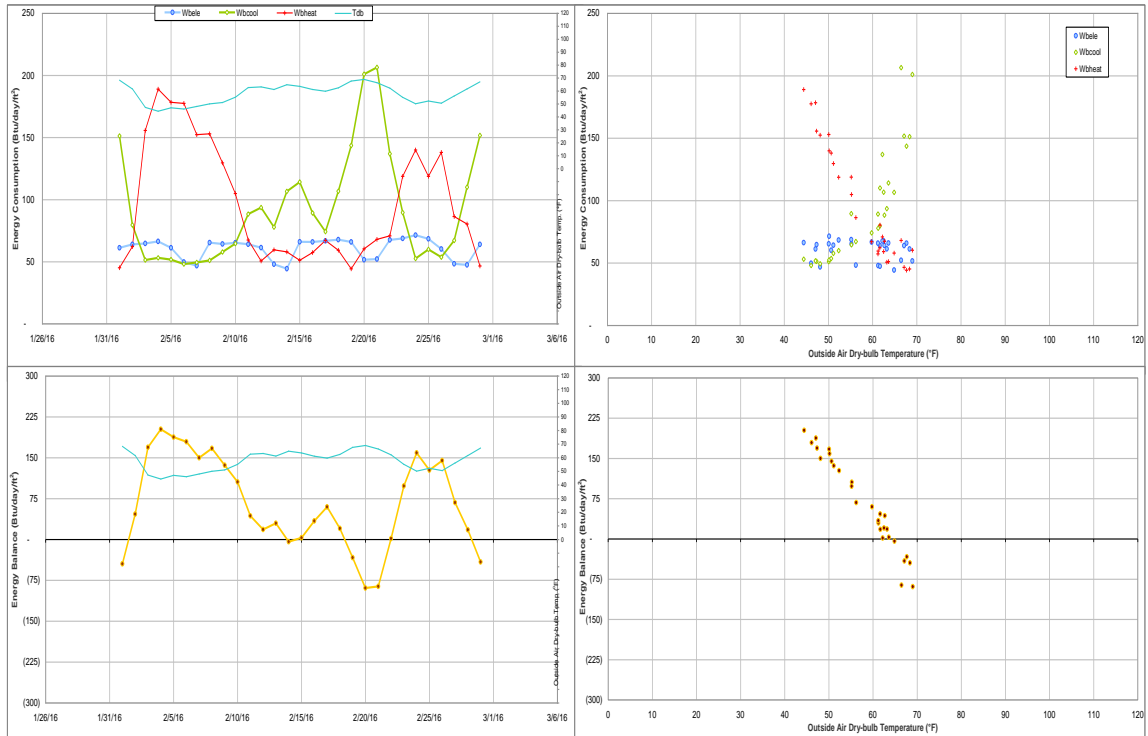


Figure IV-85 Anthropology Building TAMU BLDG # 477 Energy Balance Plot during February 2016

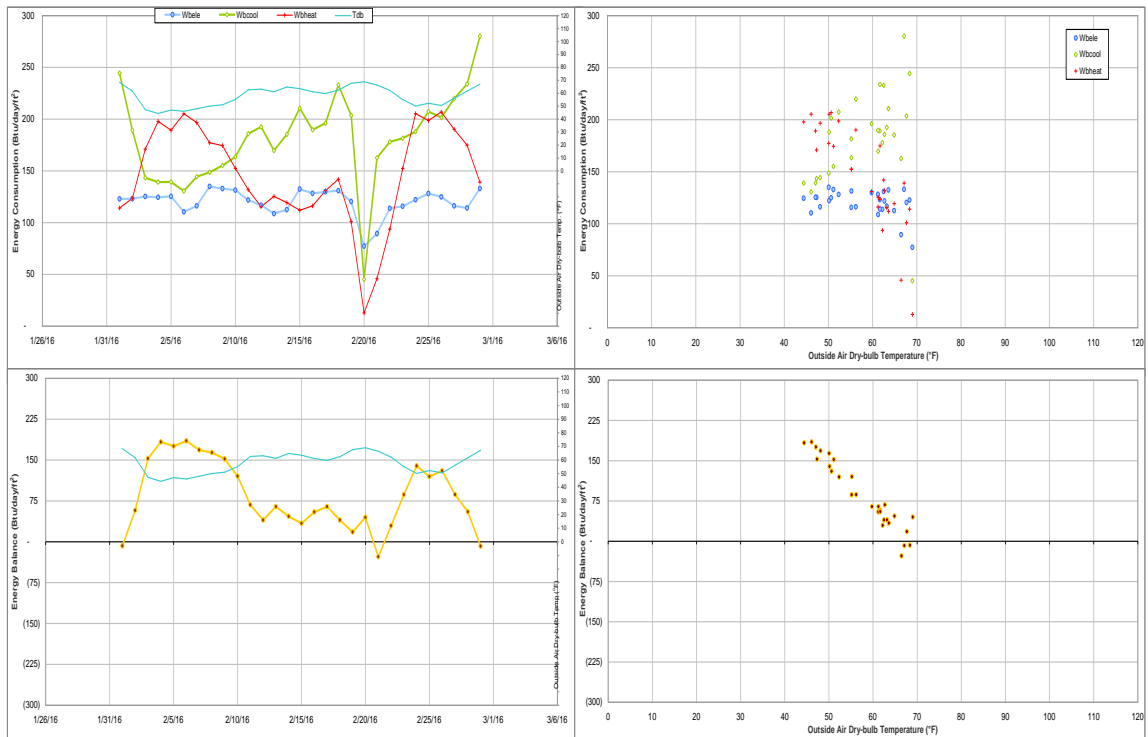


Figure IV-86 Scoates Hall TAMU BLDG # 478 Energy Balance Plot during February 2016

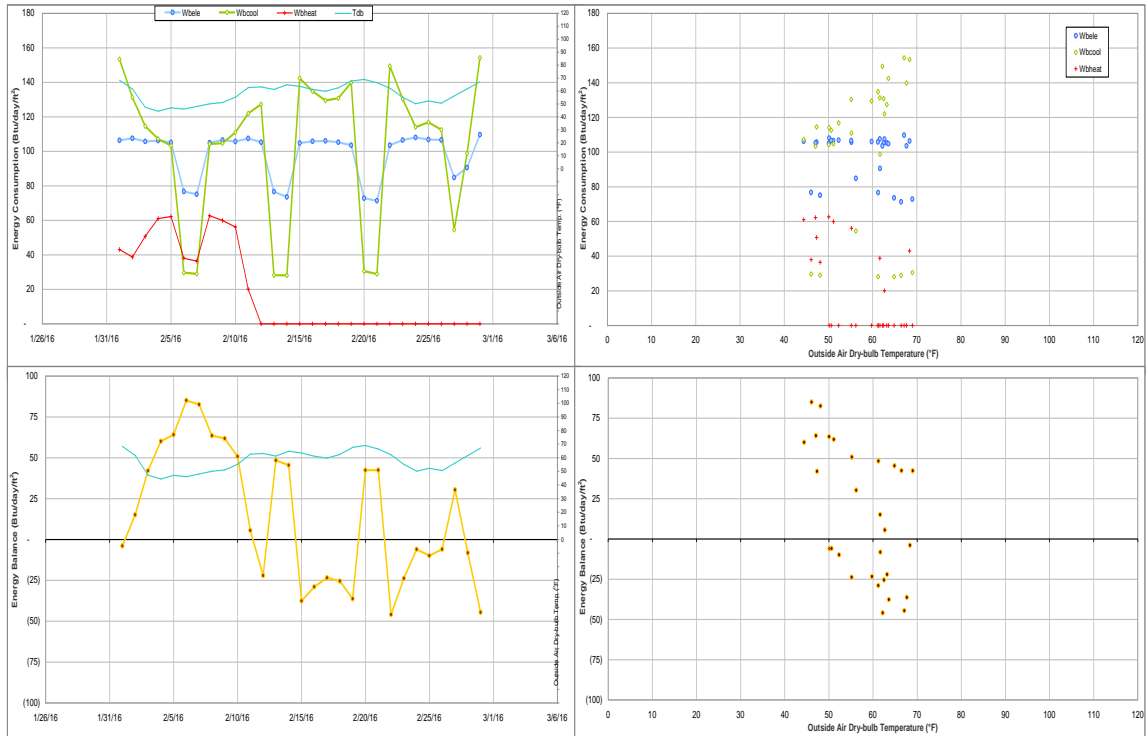


Figure IV-87 Bolton Hall TAMU BLDG # 480 Energy Balance Plot during February 2016

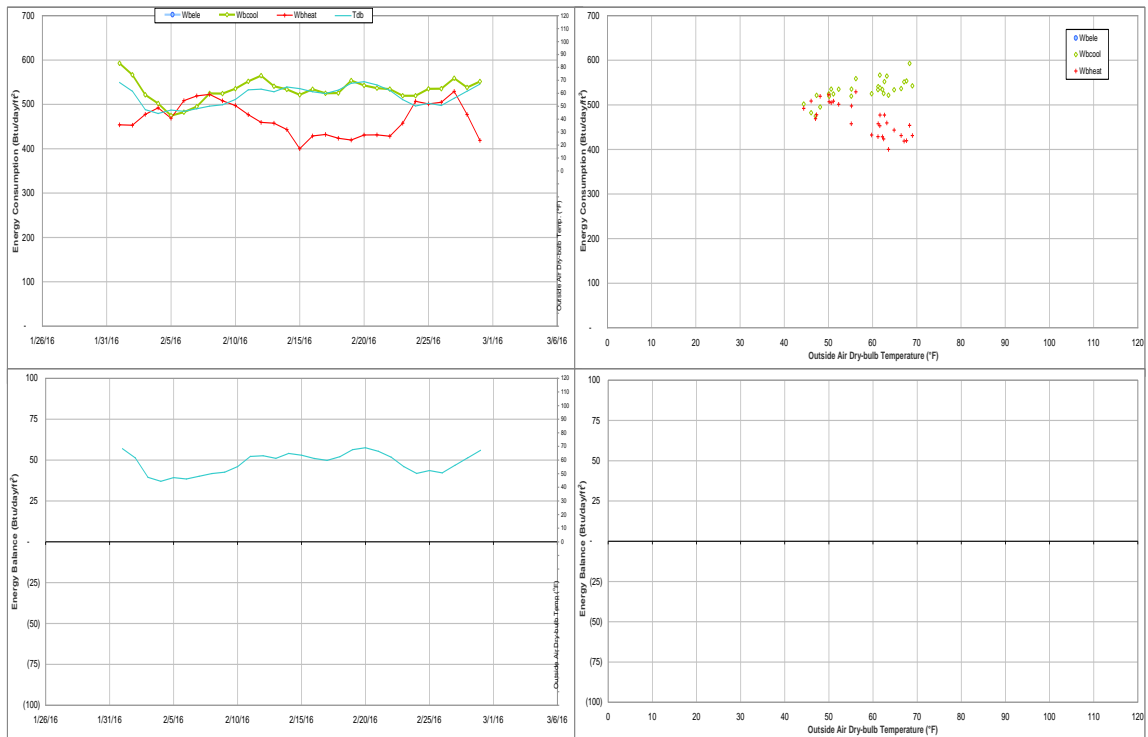


Figure IV-88 Heaton Hall TAMU BLDG # 481 Energy Balance Plot during February 2016

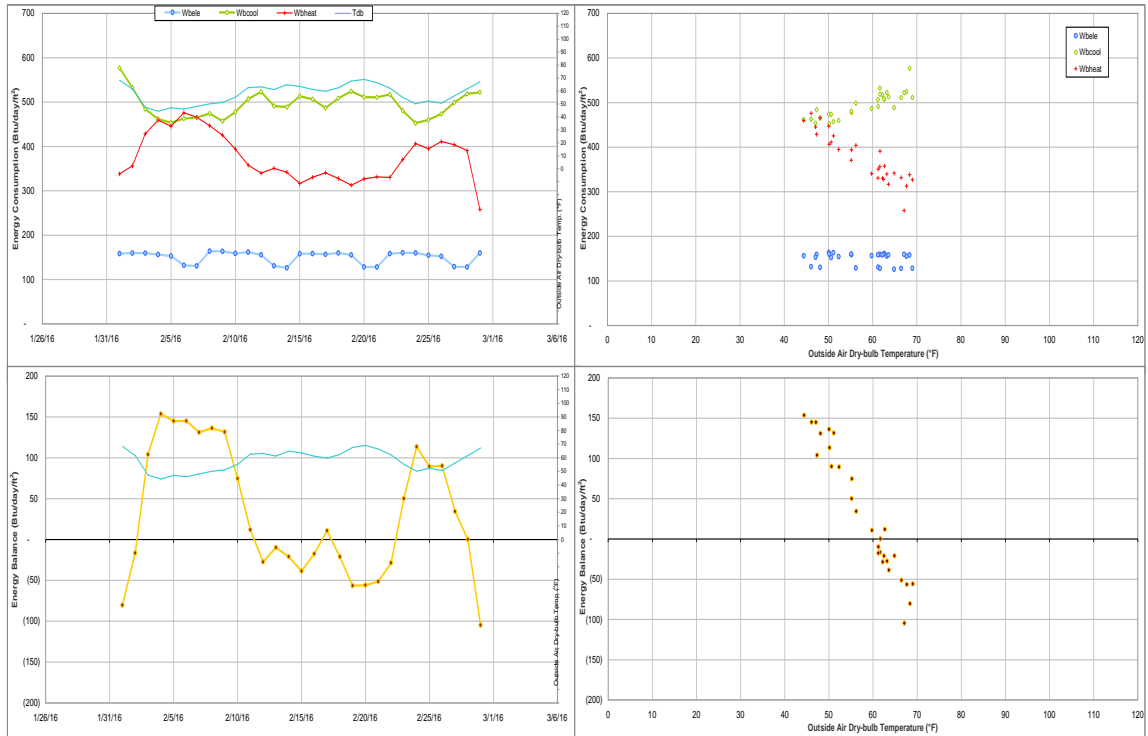


Figure IV-89 Fermier Hall TAMU BLDG # 482 Energy Balance Plot during February 2016

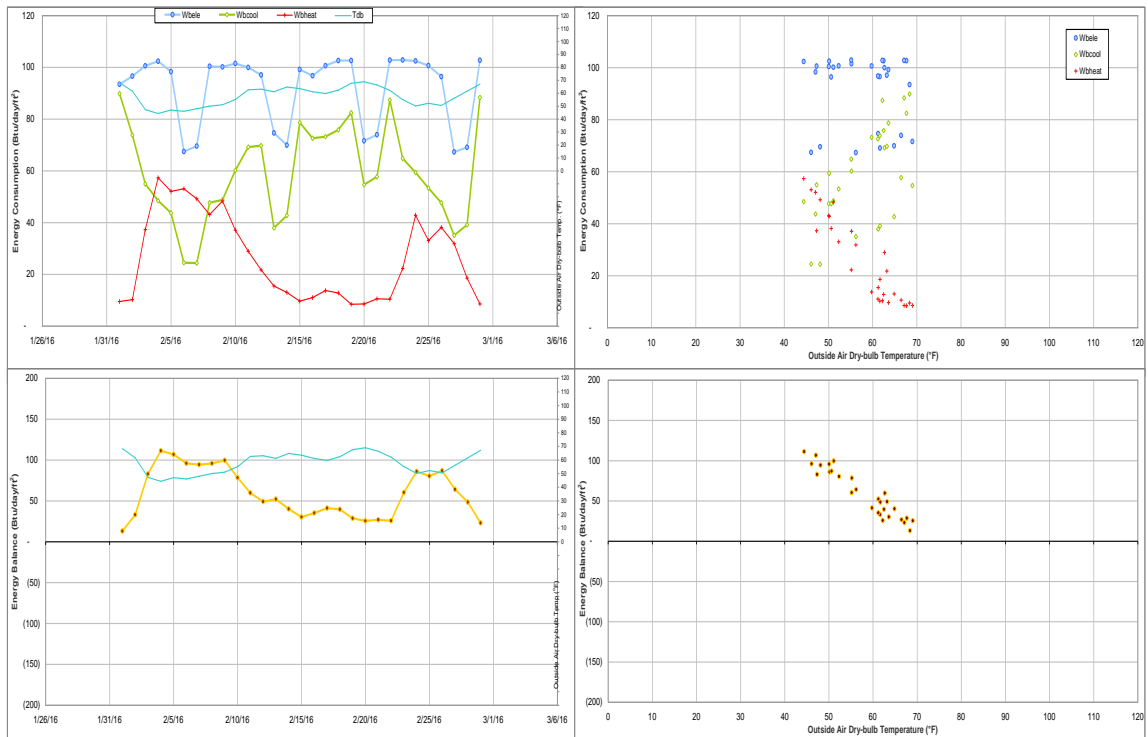


Figure IV-90 Thompson Hall TAMU BLDG # 483 Energy Balance Plot during February 2016

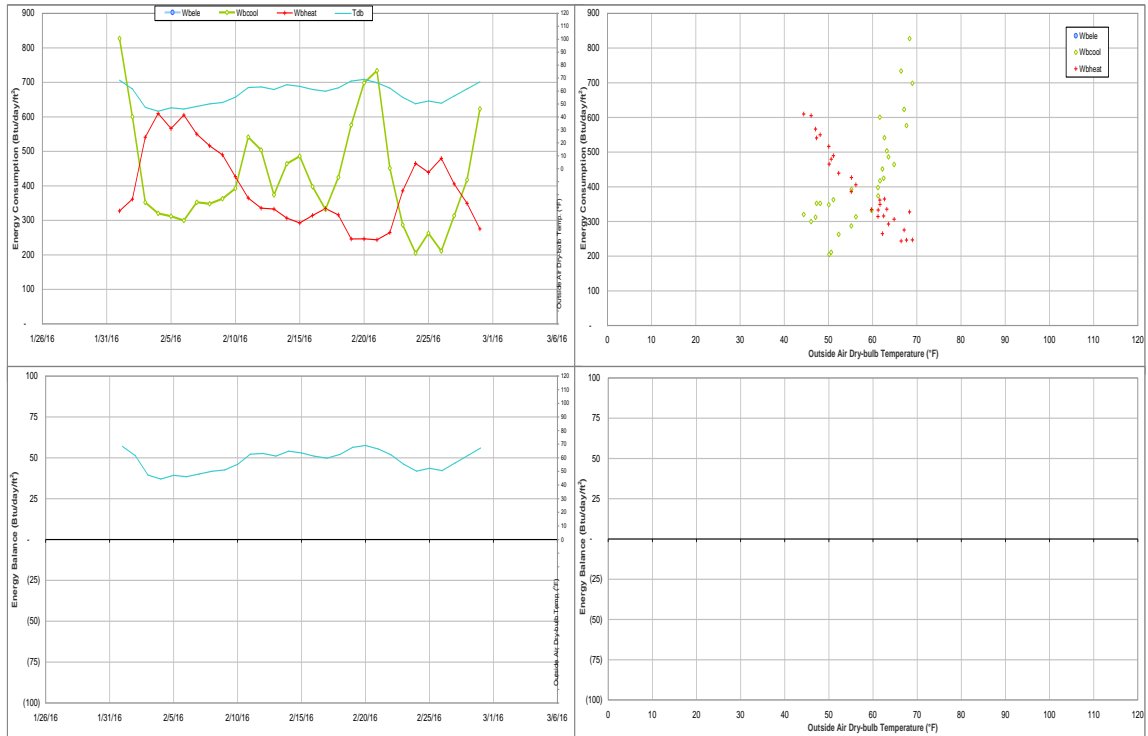


Figure IV-91 Chemistry Building TAMU BLDG # 484 Energy Balance Plot during February 2016

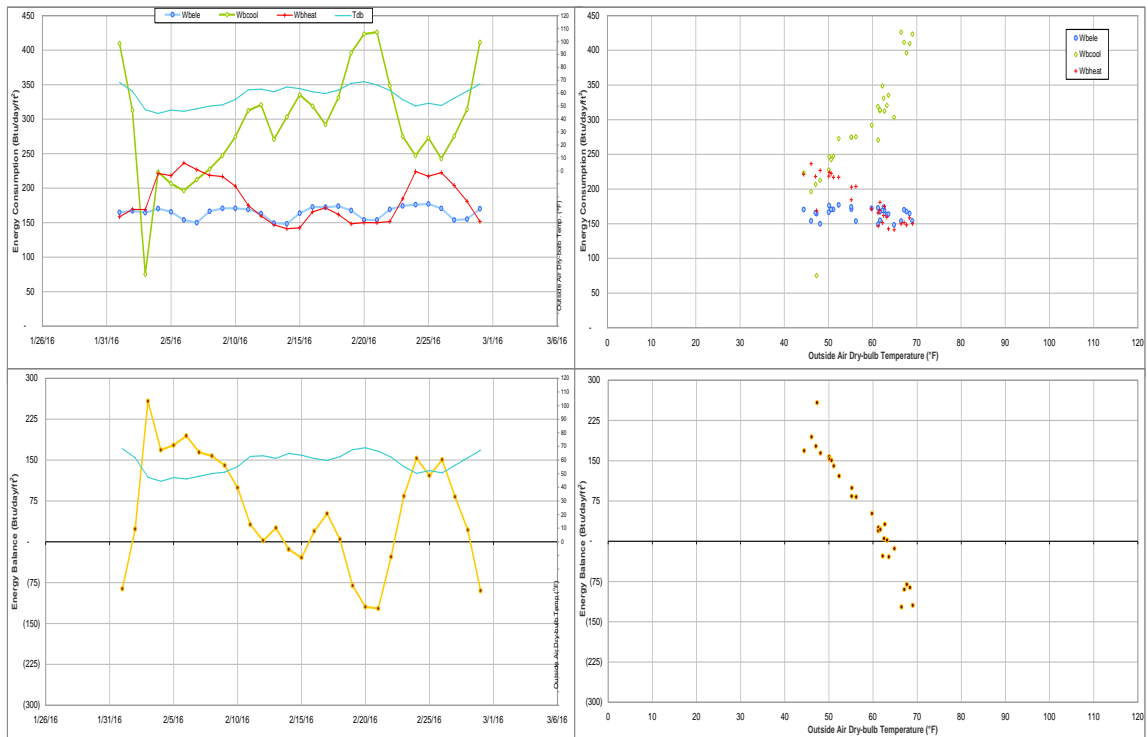


Figure IV-92 Halbouty Geosciences Building TAMU BLDG # 490 Energy Balance Plot during February 2016

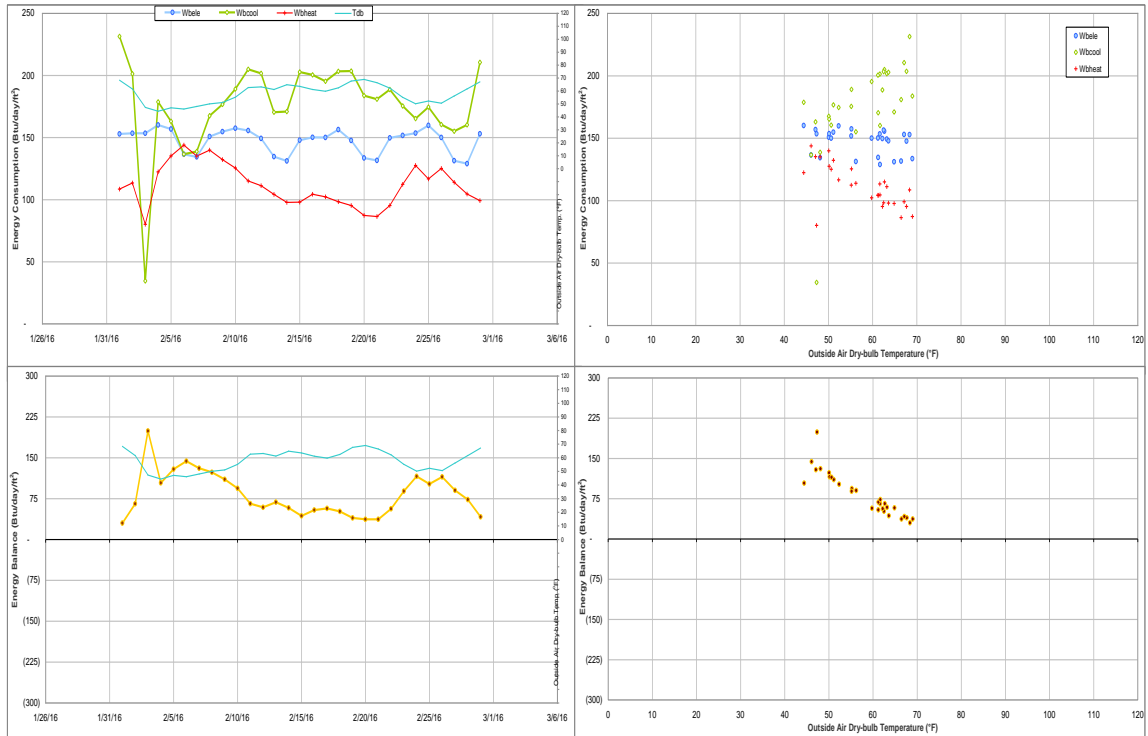


Figure IV-93 Civil Engineering Building TAMU BLDG # 492 Energy Balance Plot during February 2016

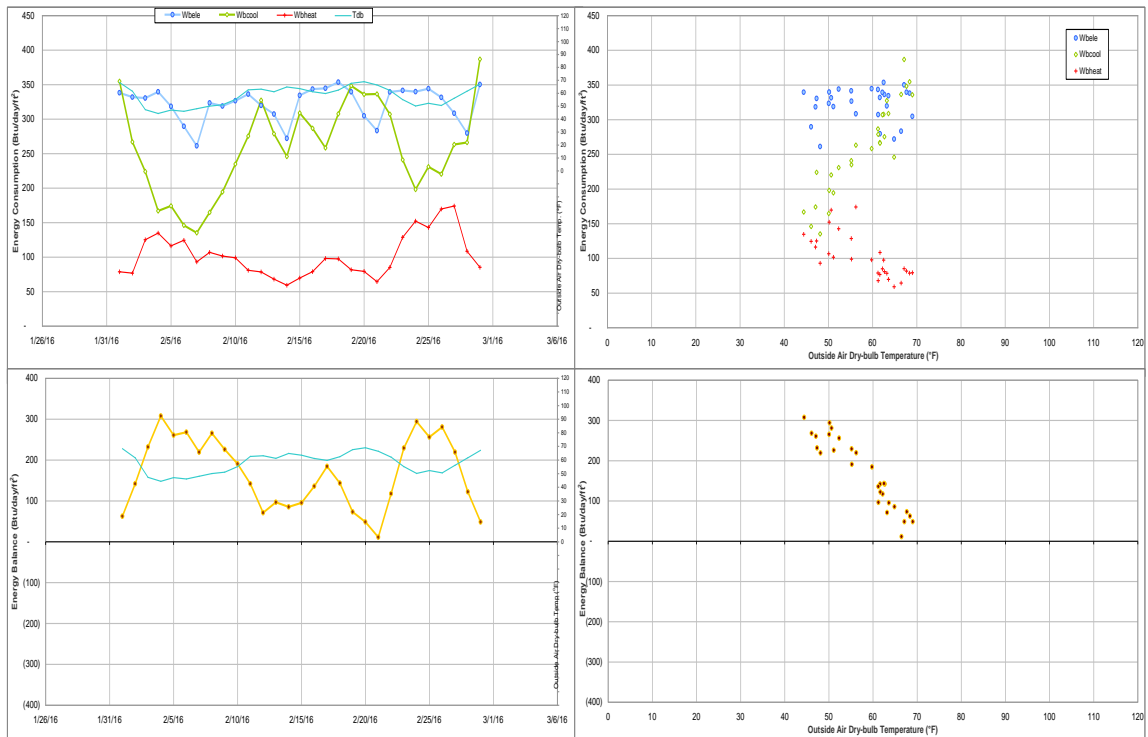


Figure IV-94 Sbisa Dining Hall TAMU BLDG # 495 Energy Balance Plot during February 2016

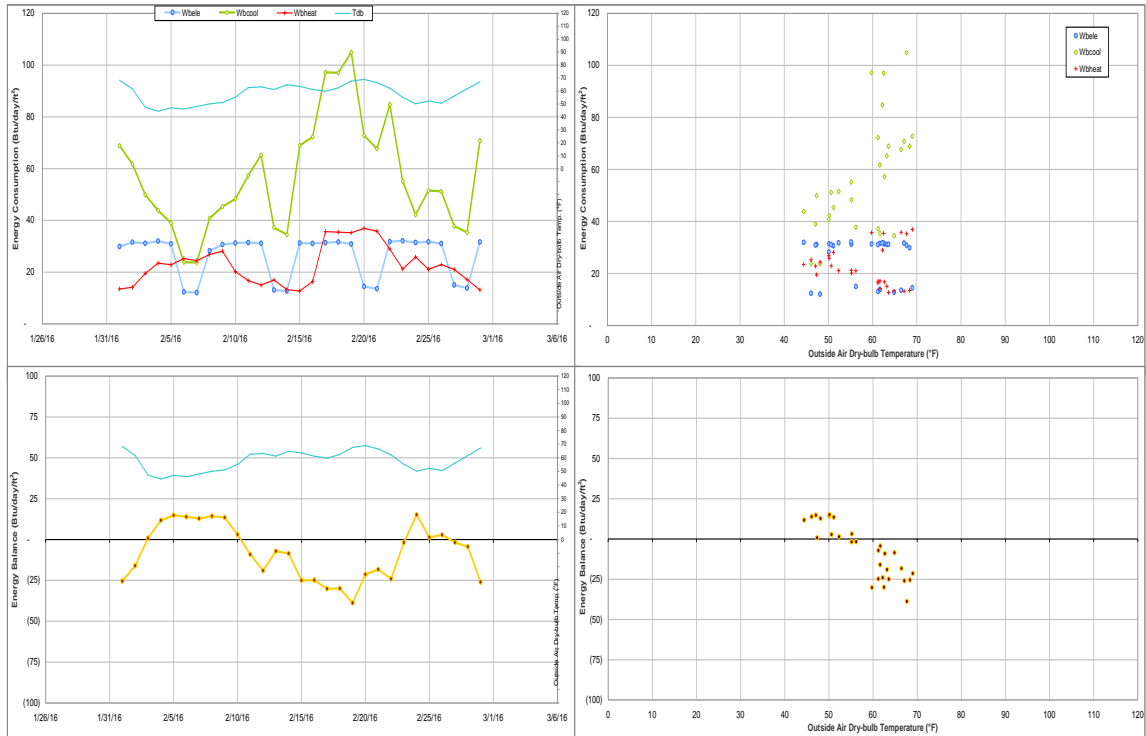


Figure IV-95 Utilities & Energy Services Central Office TAMU BLDG # 496 Energy Balance Plot during February 2016

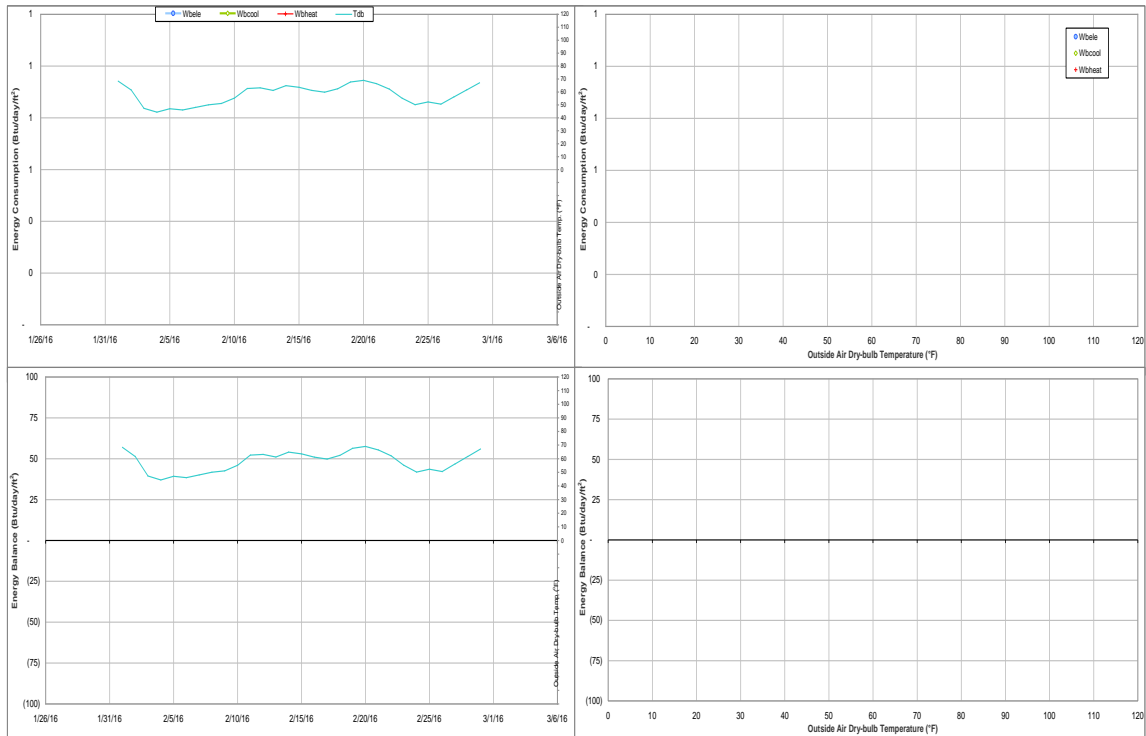


Figure IV-96 Concrete Materials Laboratory TAMU BLDG # 501 Energy Balance Plot during February 2016

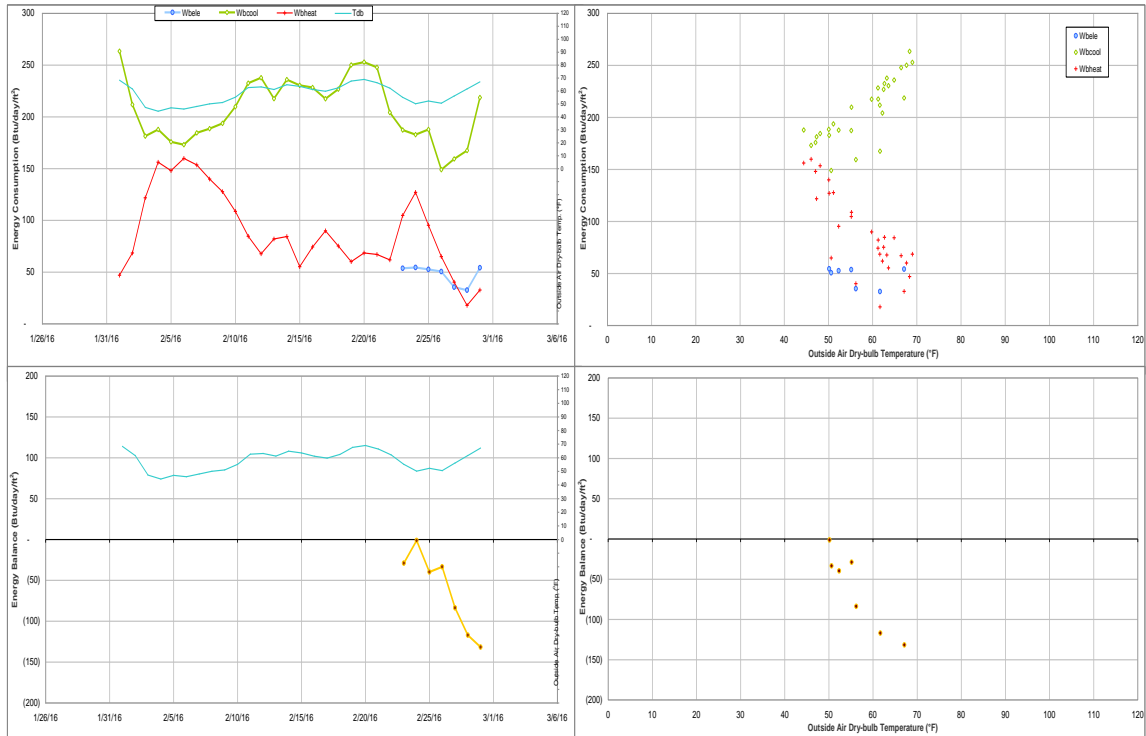


Figure IV-97 Nagle Hall TAMU BLDG # 506 Energy Balance Plot during February 2016

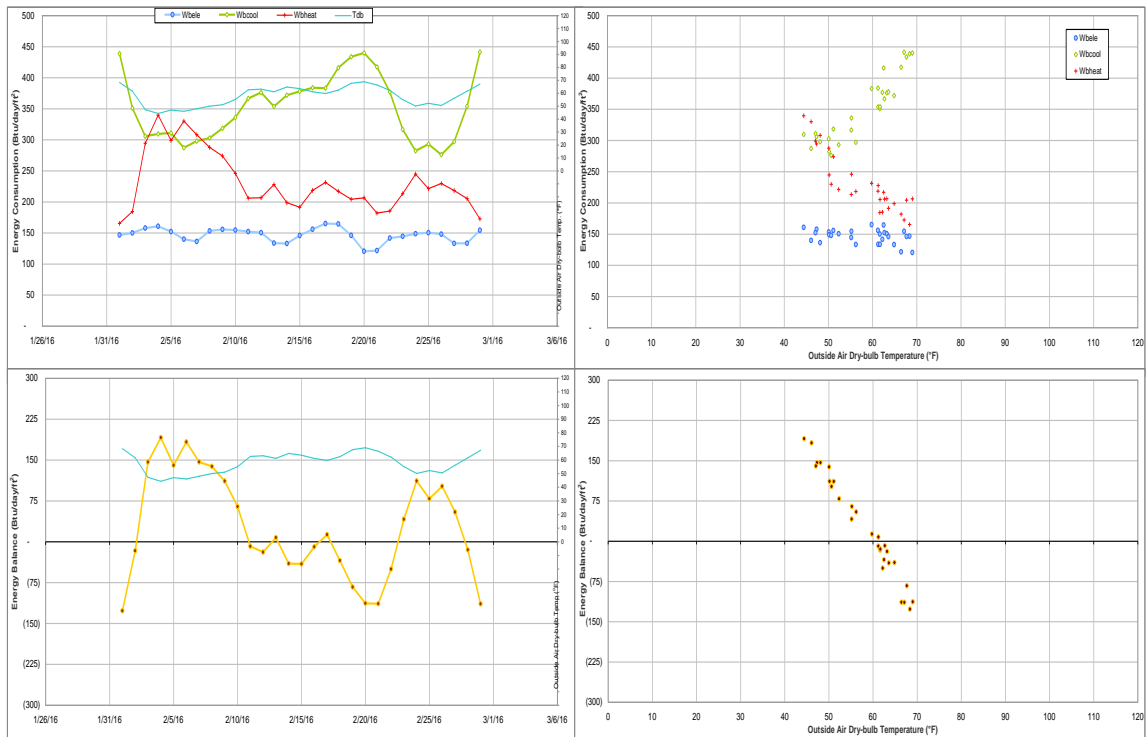


Figure IV-98 Veterinary Medical Science Building TAMU BLDG # 507 Energy Balance Plot during February 2016

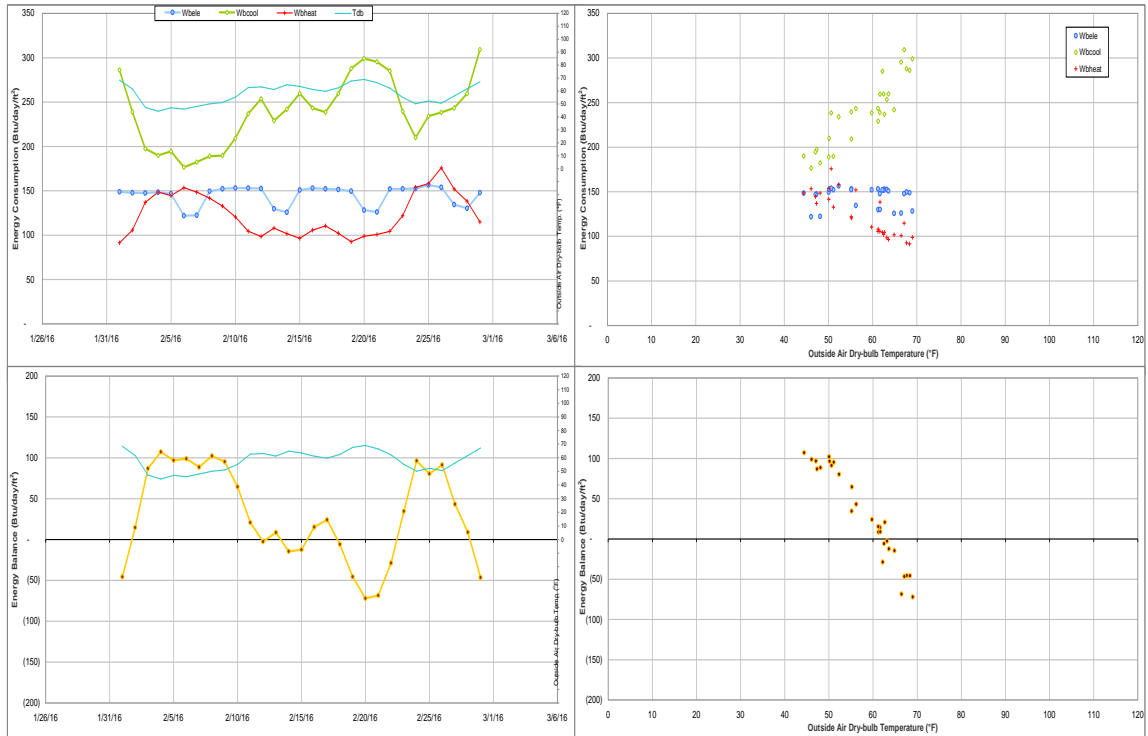


Figure IV-99 Veterinary Teaching Hospital and Veterinary Medicine Administration TAMU BLDG # 508-1026 Energy Balance Plot during February 2016

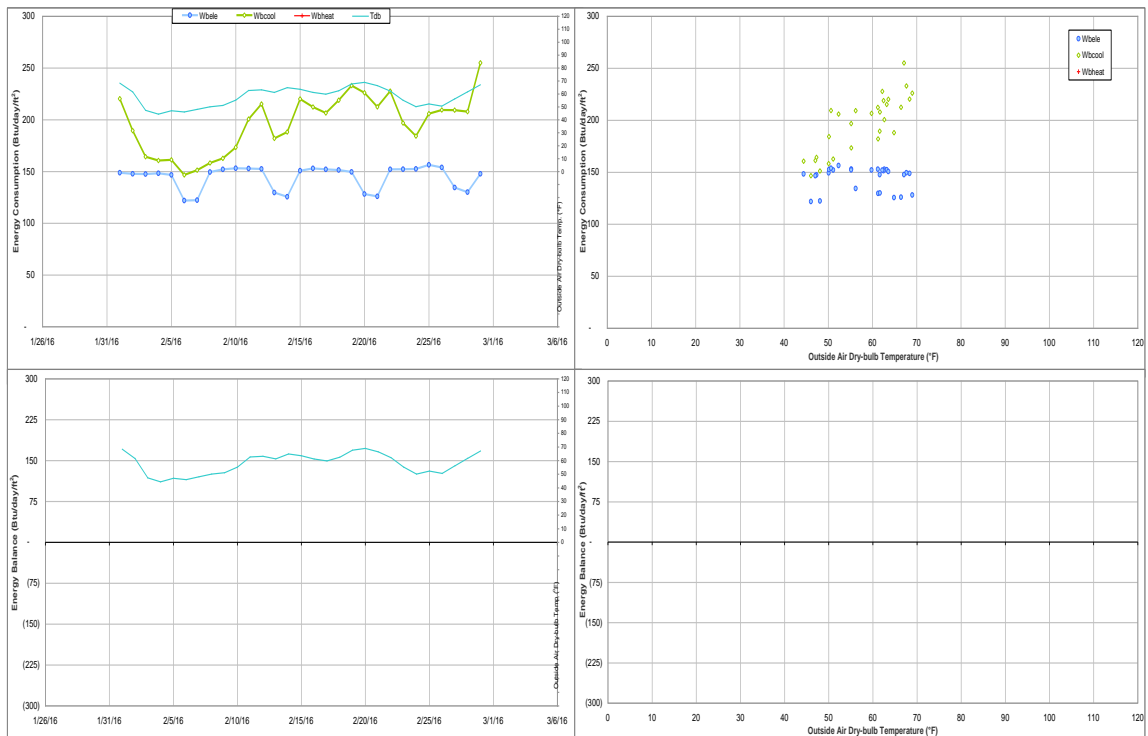


Figure IV-100 Veterinary Teaching Hospital TAMU BLDG # 508 Energy Balance Plot during February 2016

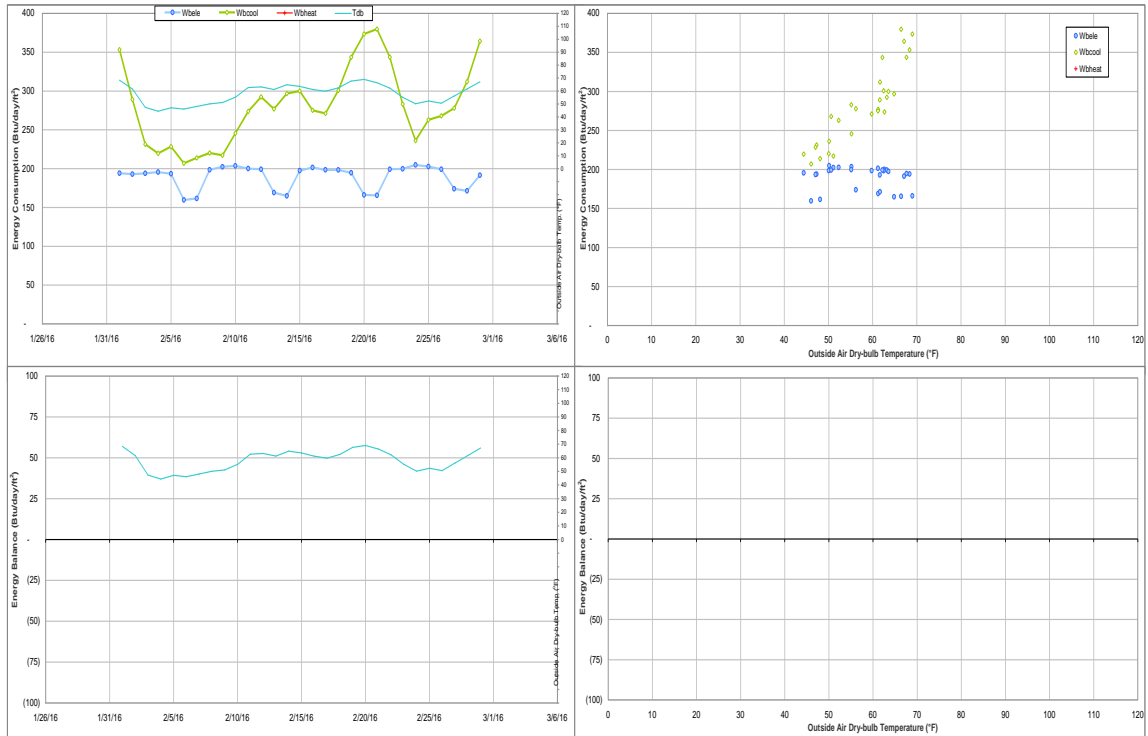


Figure IV-101 Veterinary Medicine Administration TAMU BLDG # 1026 Energy Balance Plot during February 2016

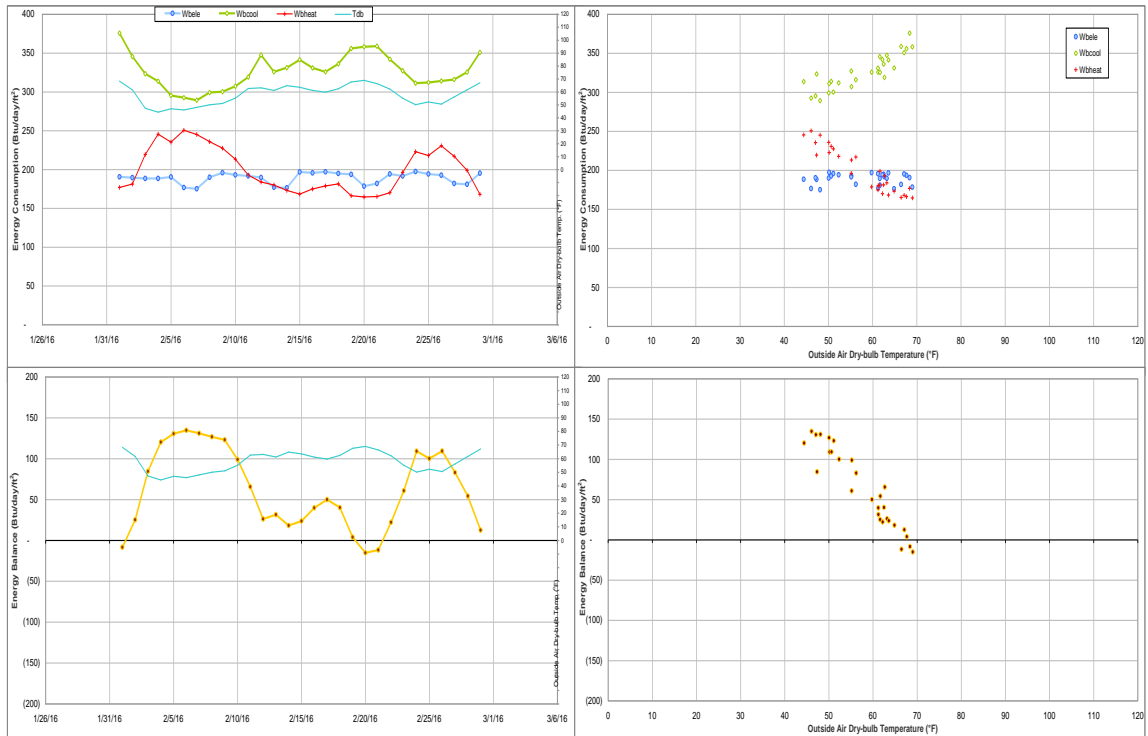


Figure IV-102 Heep Laboratory Building TAMU BLDG # 511 Energy Balance Plot during February 2016

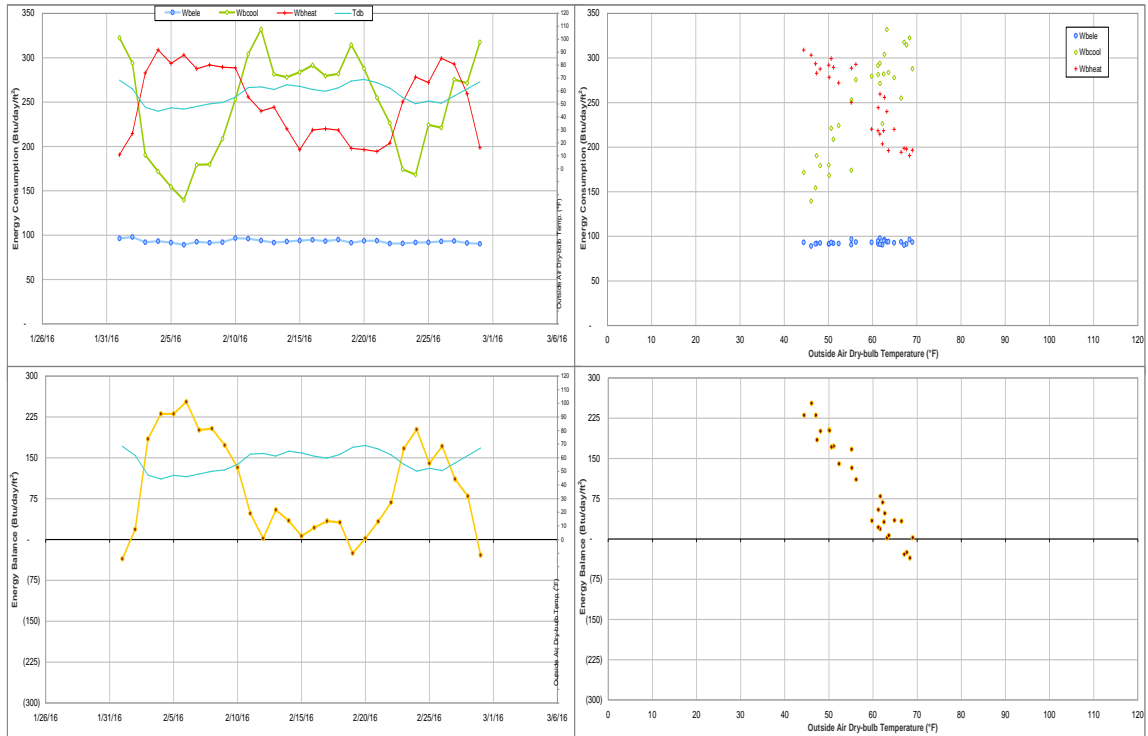


Figure IV-103 All Faiths Chapel TAMU BLDG # 512 Energy Balance Plot during February 2016

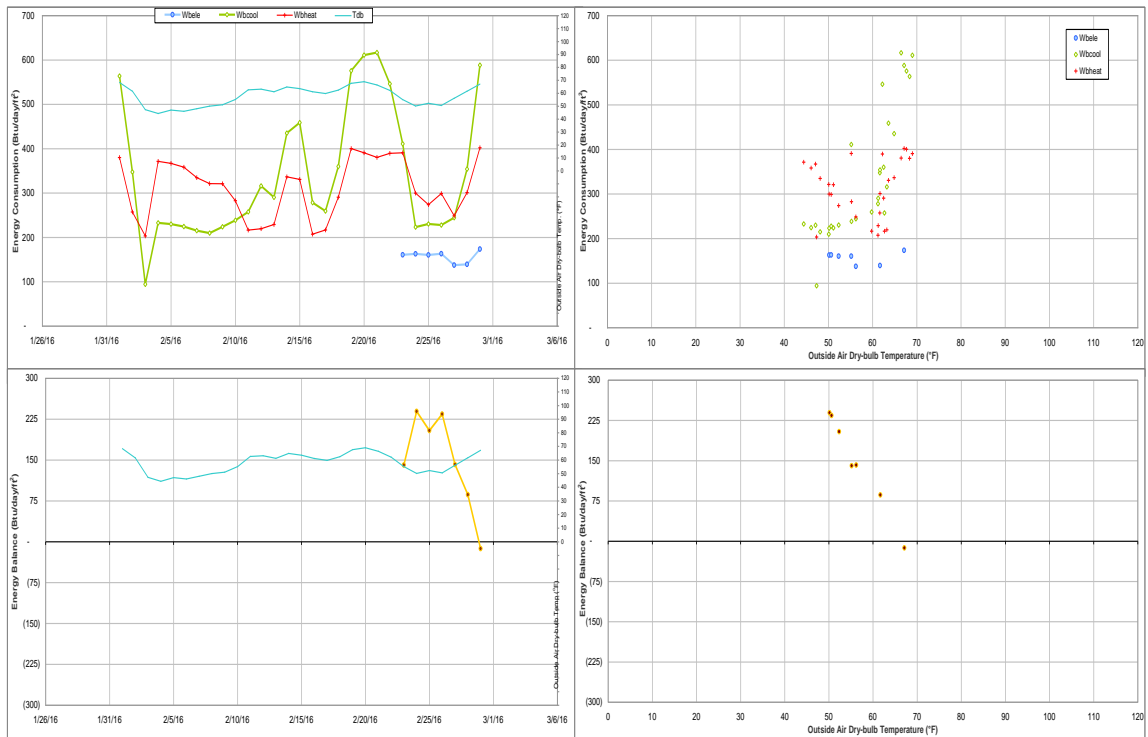


Figure IV-104 Doherty Building TAMU BLDG # 513 Energy Balance Plot during February 2016

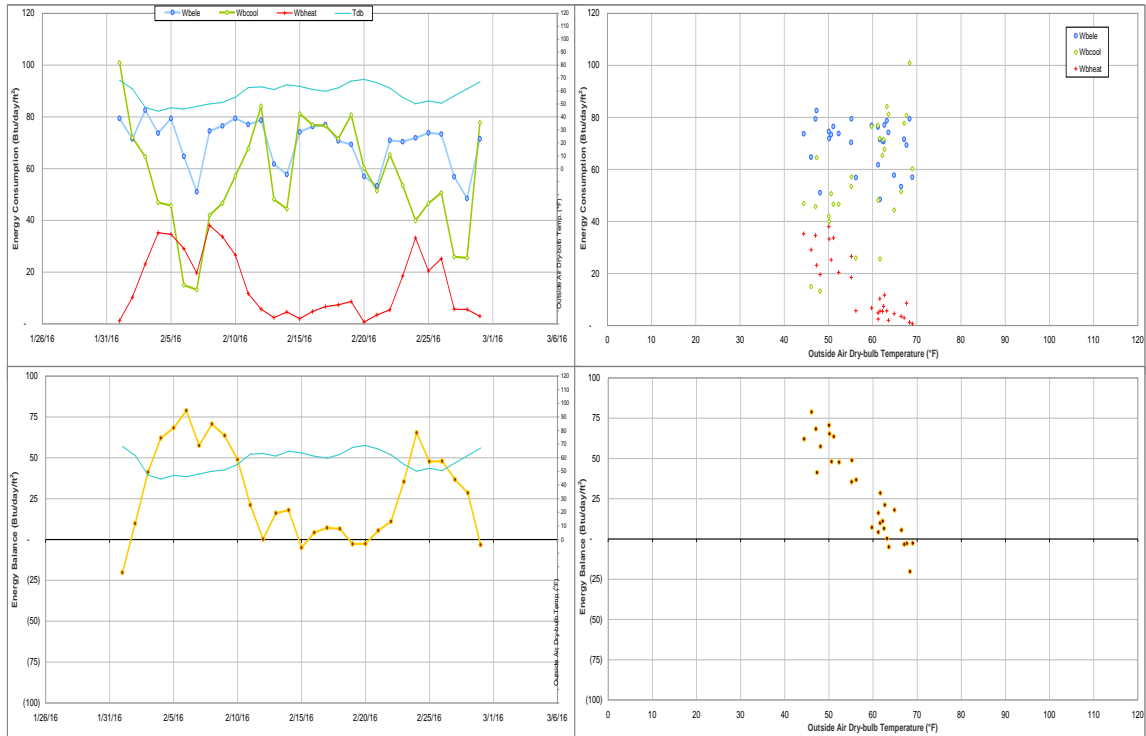


Figure IV-105 Munnerylyn Astronomy & Space Sciences Engineering TAMU BLDG # 514 Energy Balance Plot during February 2016

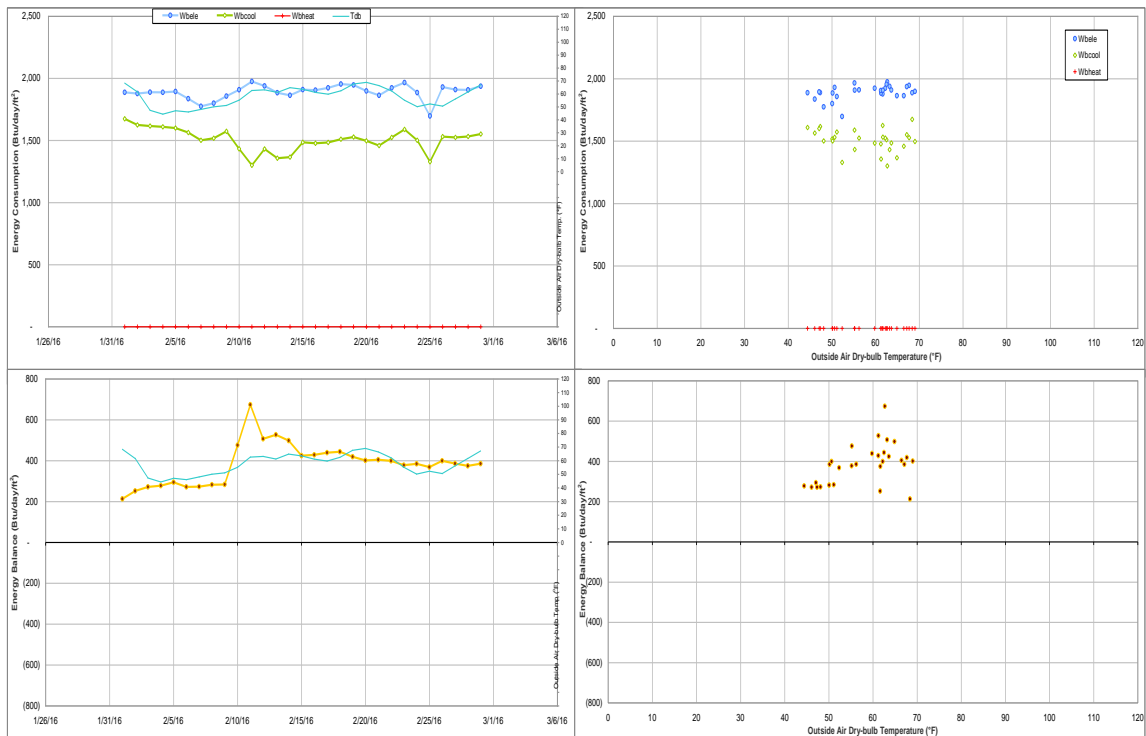


Figure IV-106 Computing Services Center TAMU BLDG # 516 Energy Balance Plot during February 2016

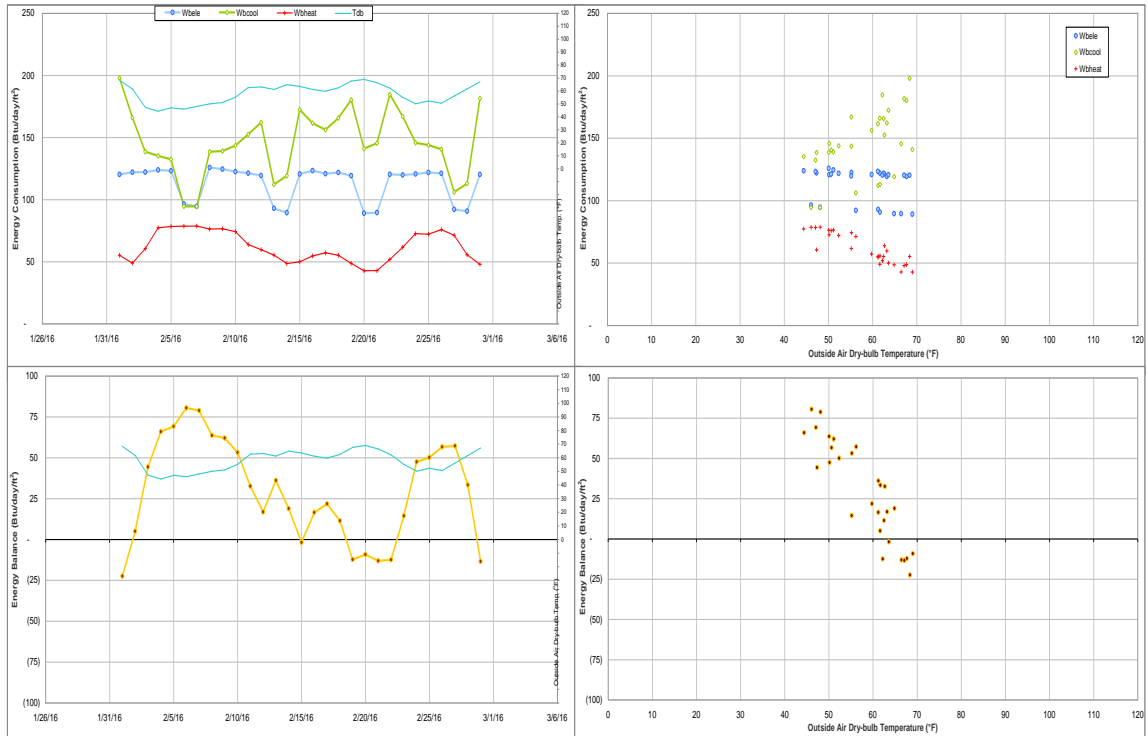


Figure IV-107 Beutel Health Center TAMU BLDG # 520 Energy Balance Plot during February 2016

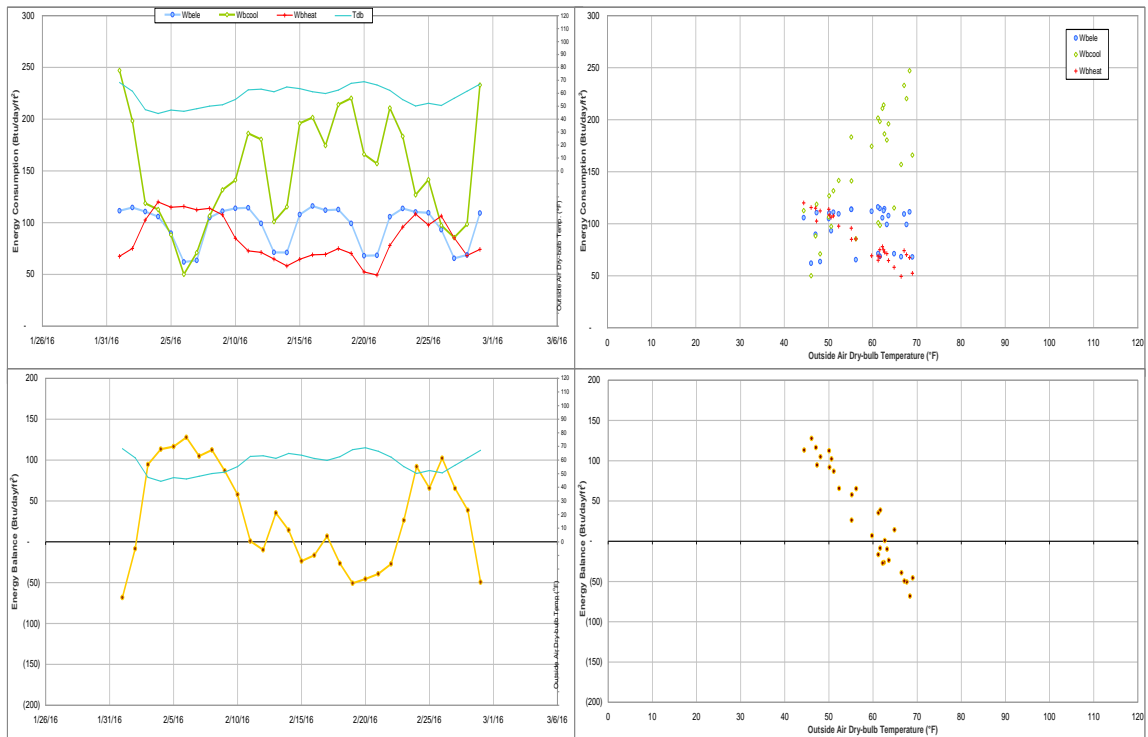


Figure IV-108 Heldenfels Hall TAMU BLDG # 521 Energy Balance Plot during February 2016

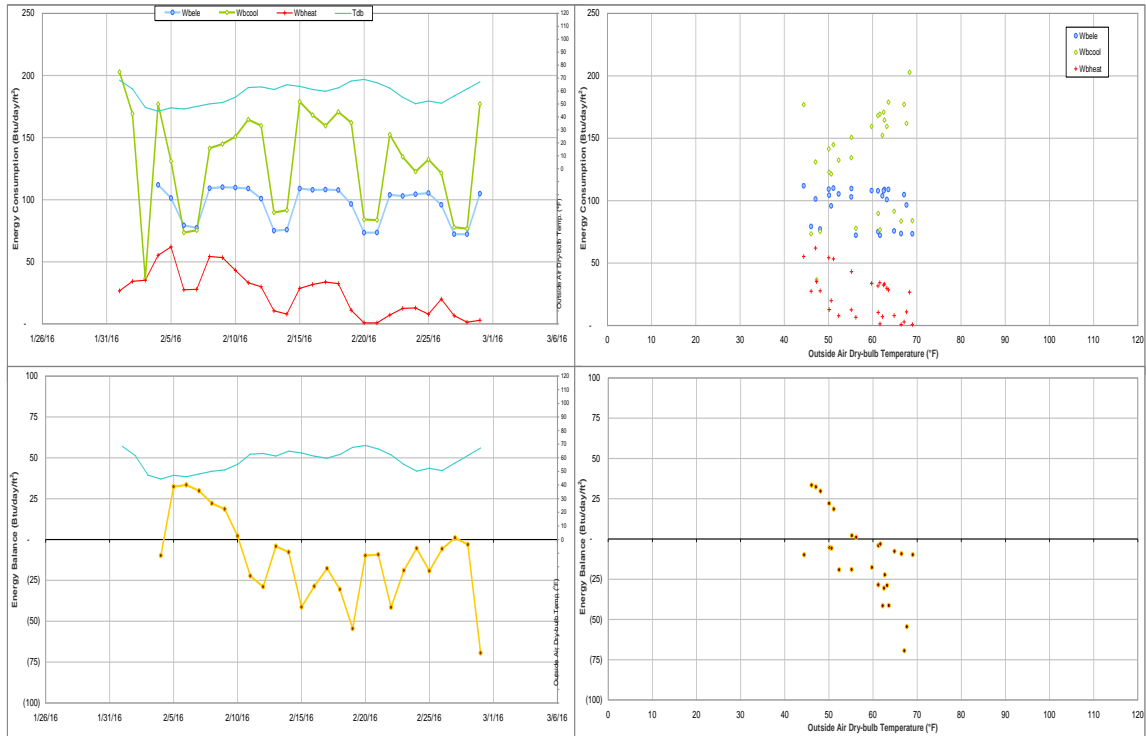


Figure IV-109 Blocker building TAMU BLDG # 524 Energy Balance Plot during February 2016

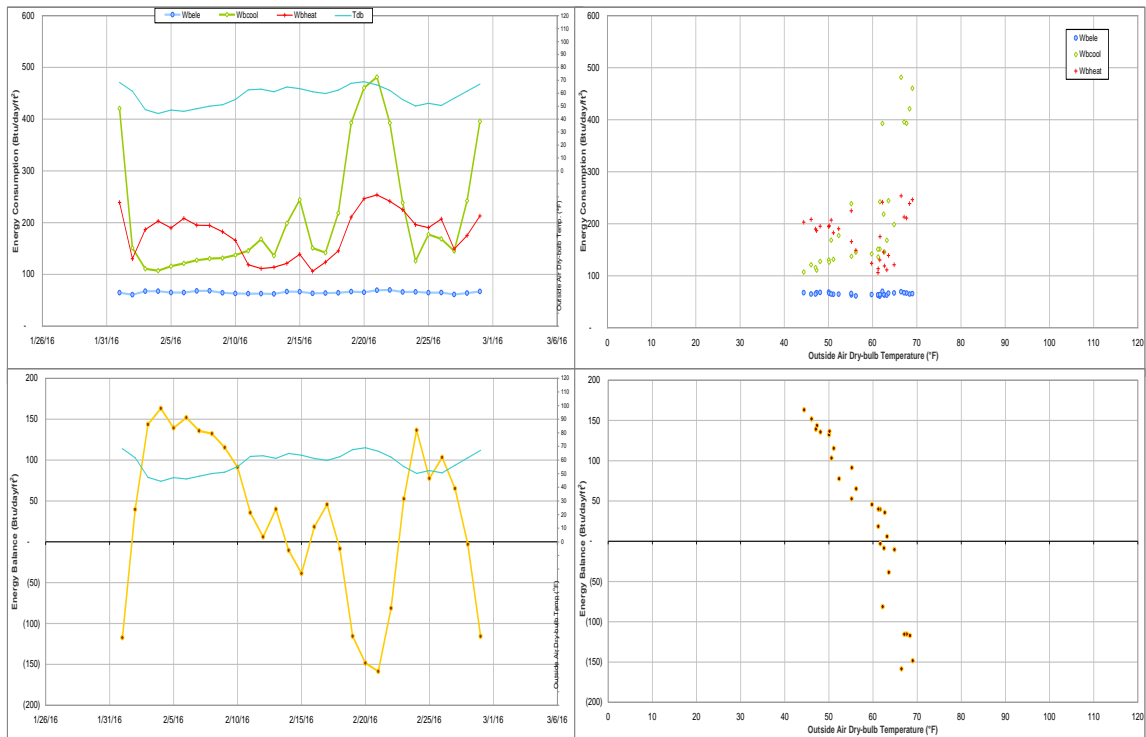


Figure IV-110 Clements Residence Hall TAMU BLDG # 548 Energy Balance Plot during February 2016

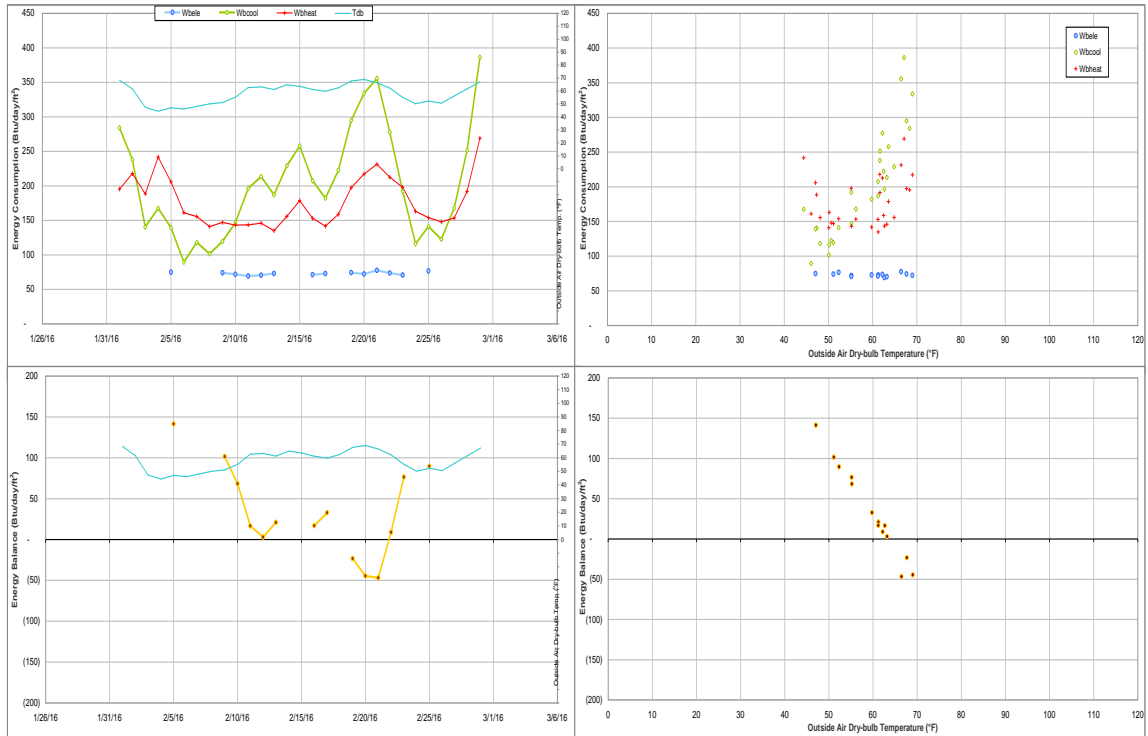


Figure IV-111 Haas Residence Hall TAMU BLDG # 549 Energy Balance Plot during February 2016

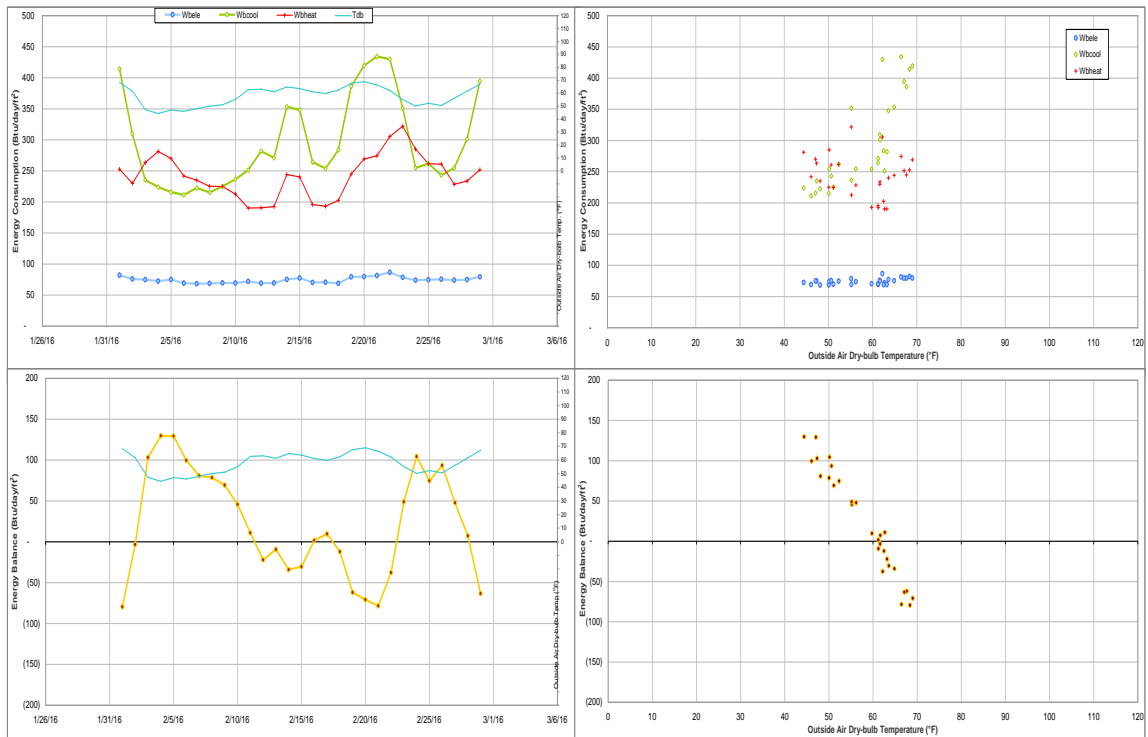


Figure IV-112 McFadden Residence Hall TAMU BLDG # 550 Energy Balance Plot during February 2016

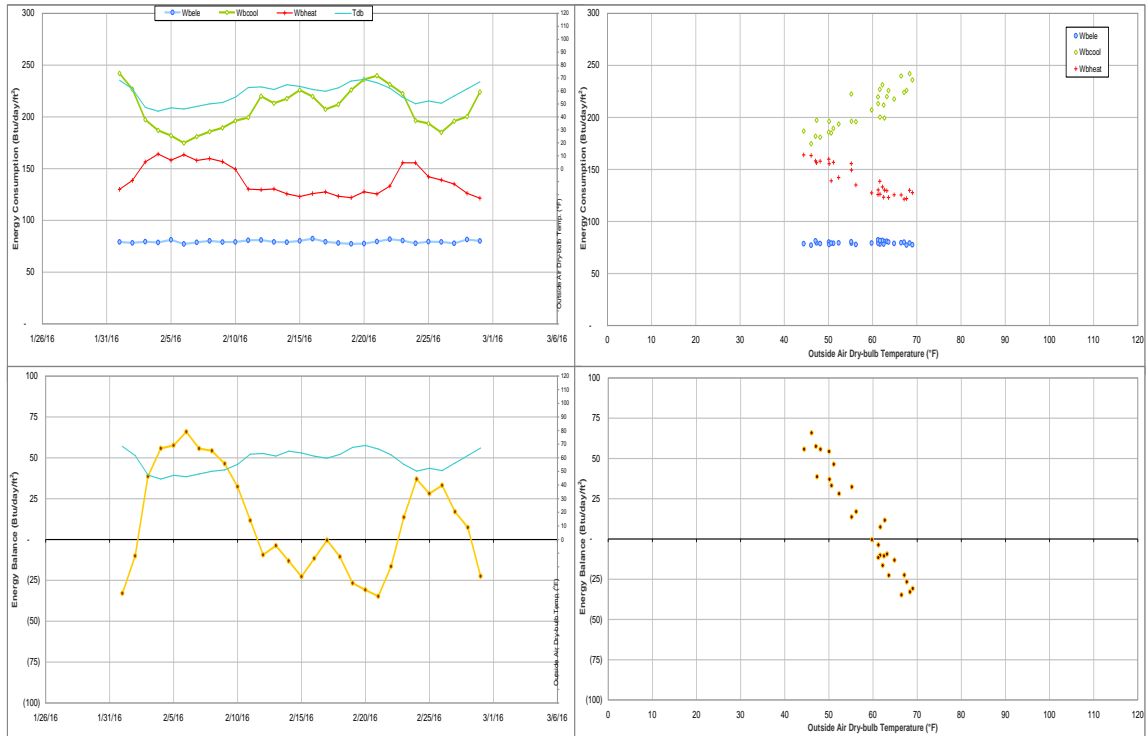


Figure IV-113 Neeley Residence Hall TAMU BLDG # 652 Energy Balance Plot during February 2016

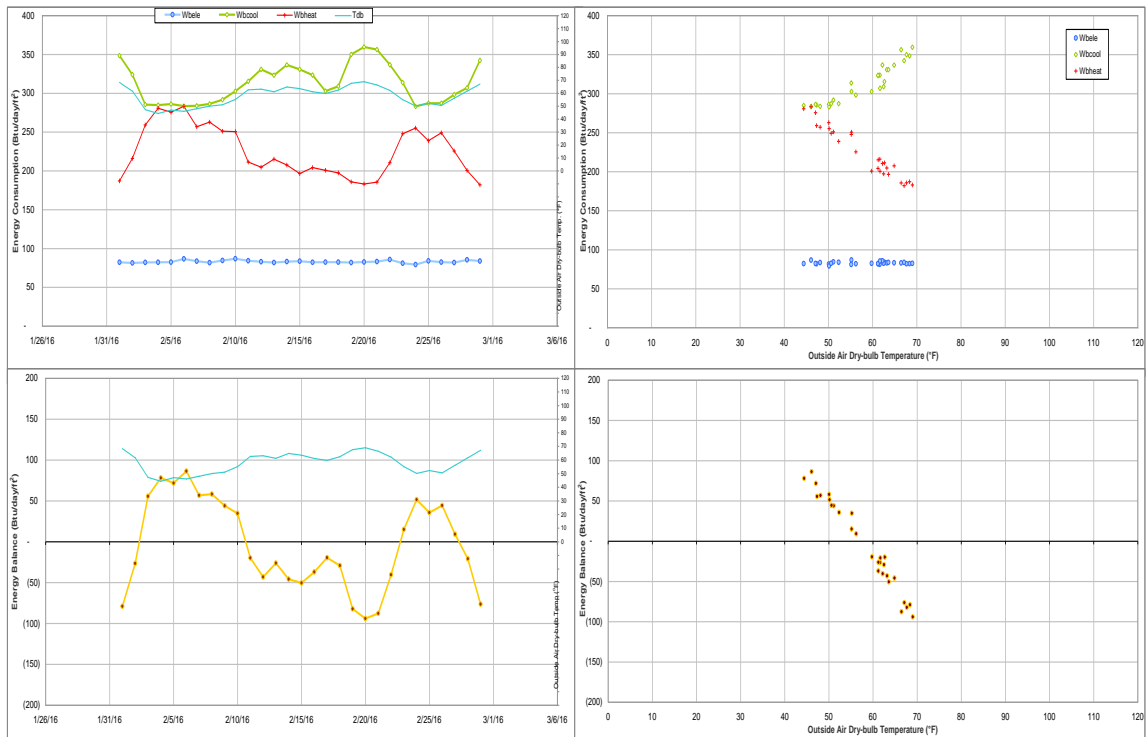


Figure IV-114 Hobby Residence Hall TAMU BLDG # 653 Energy Balance Plot during February 2016

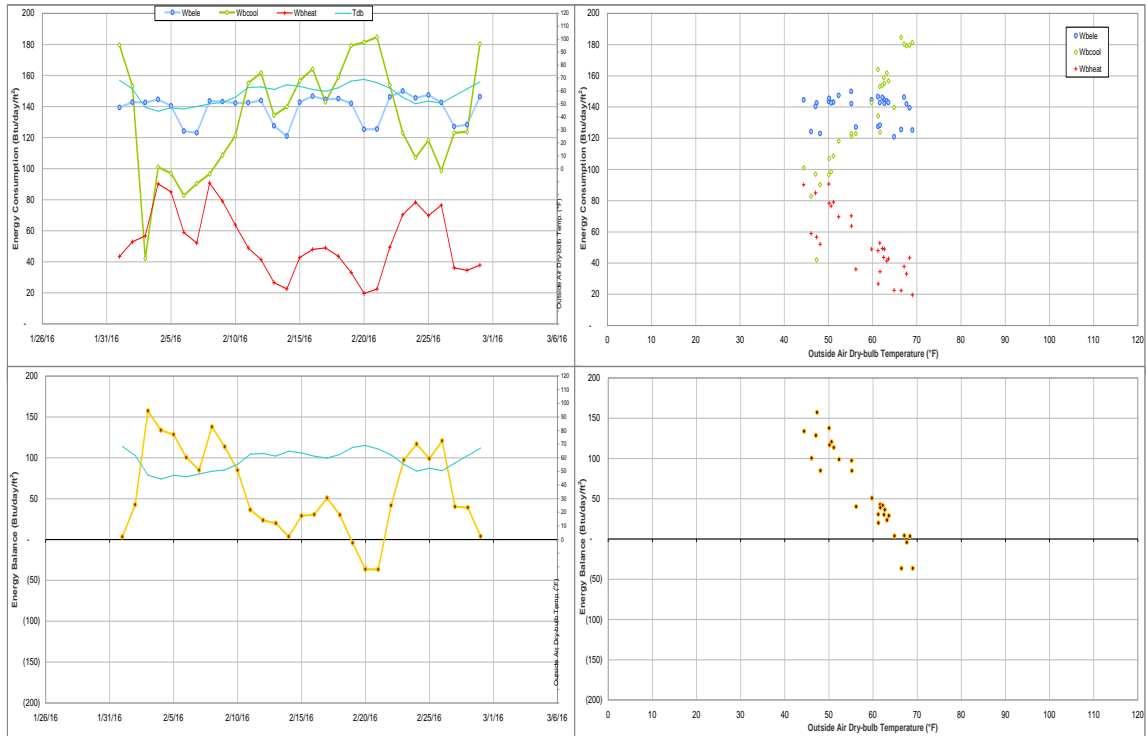


Figure IV-115 Wisenbaker Engineering Research Center TAMU BLDG # 682 Energy Balance Plot during February 2016

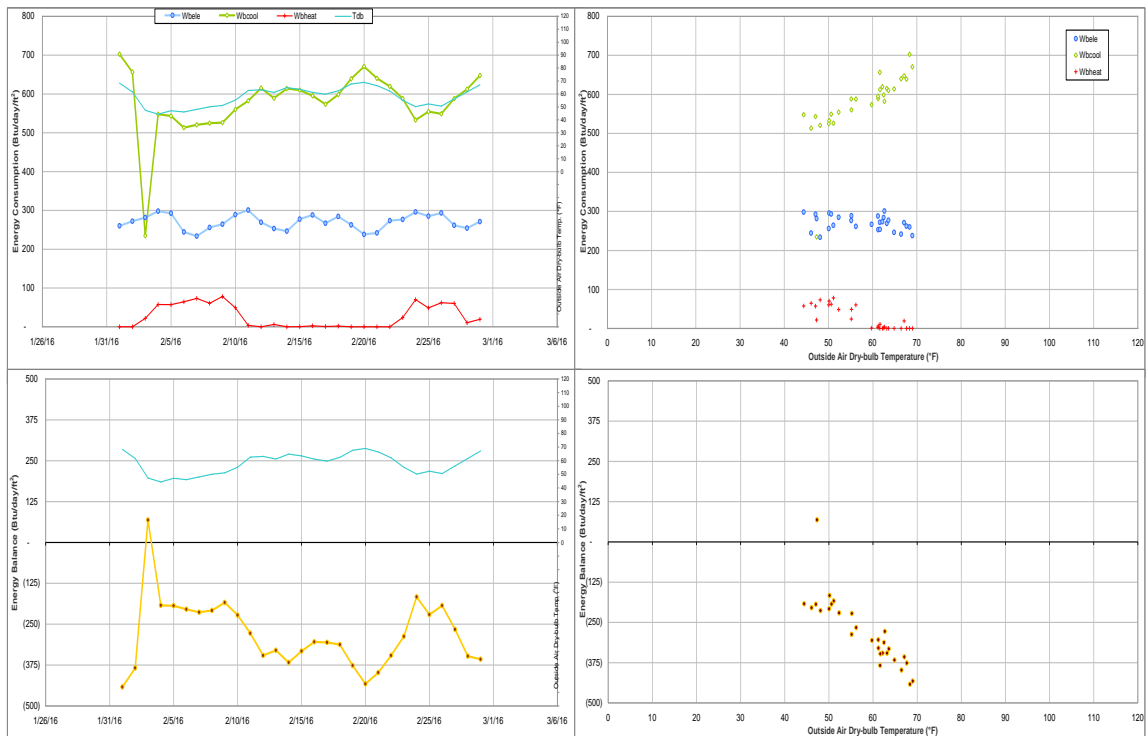


Figure IV-116 McNew Laboratory TAMU BLDG # 740 Energy Balance Plot during February 2016

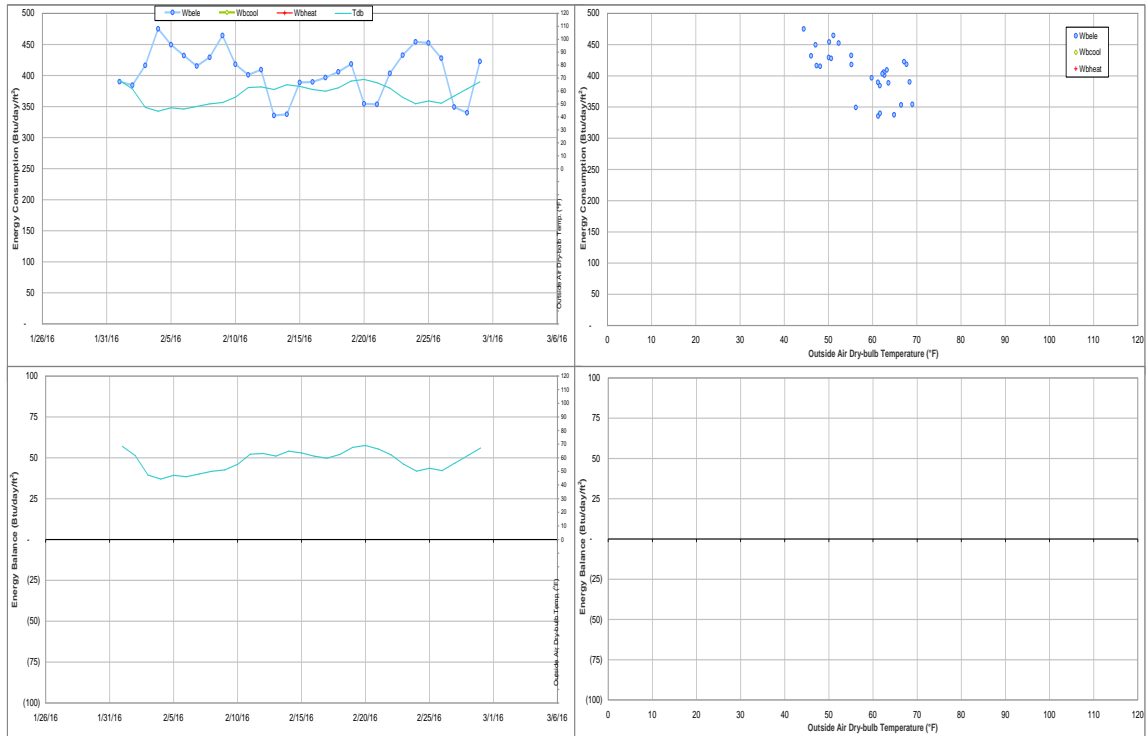


Figure IV-117 Soil Testing Labs TAMU BLDG # 806 Energy Balance Plot during February 2016

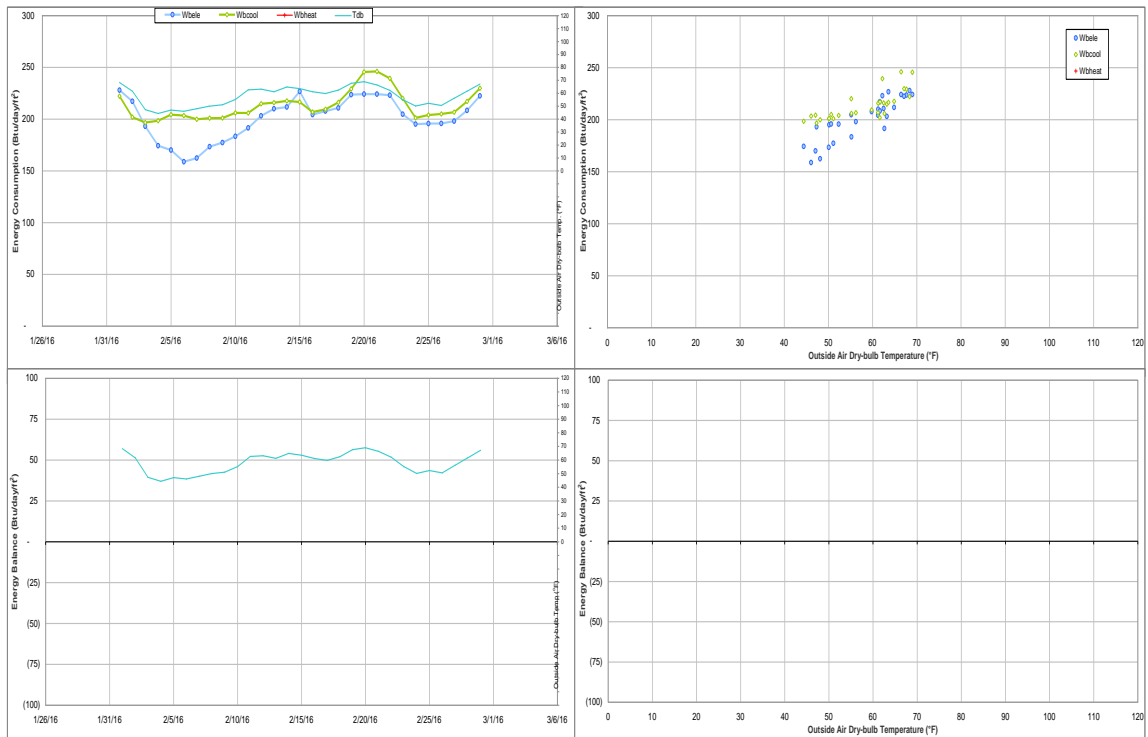


Figure IV-118 Entomology Research Lab TAMU BLDG # 815 Energy Balance Plot during February 2016

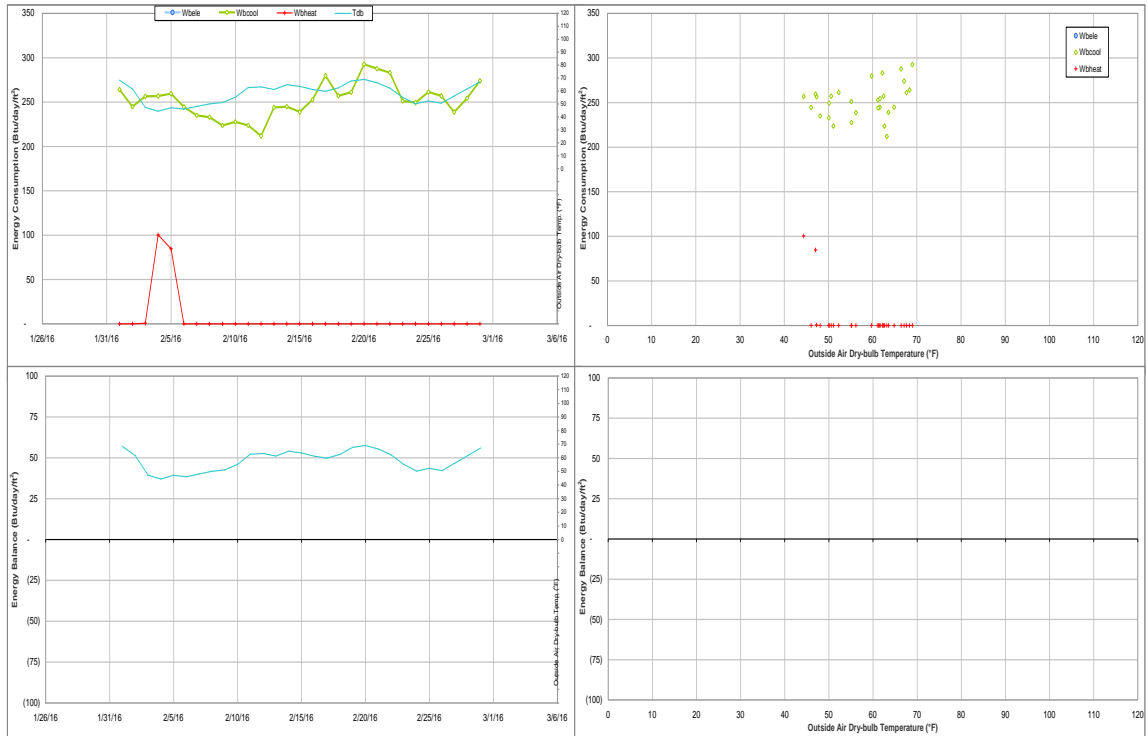


Figure IV-119 TVMC-Small Animal Building TAMU BLDG # 880 Energy Balance Plot during February 2016

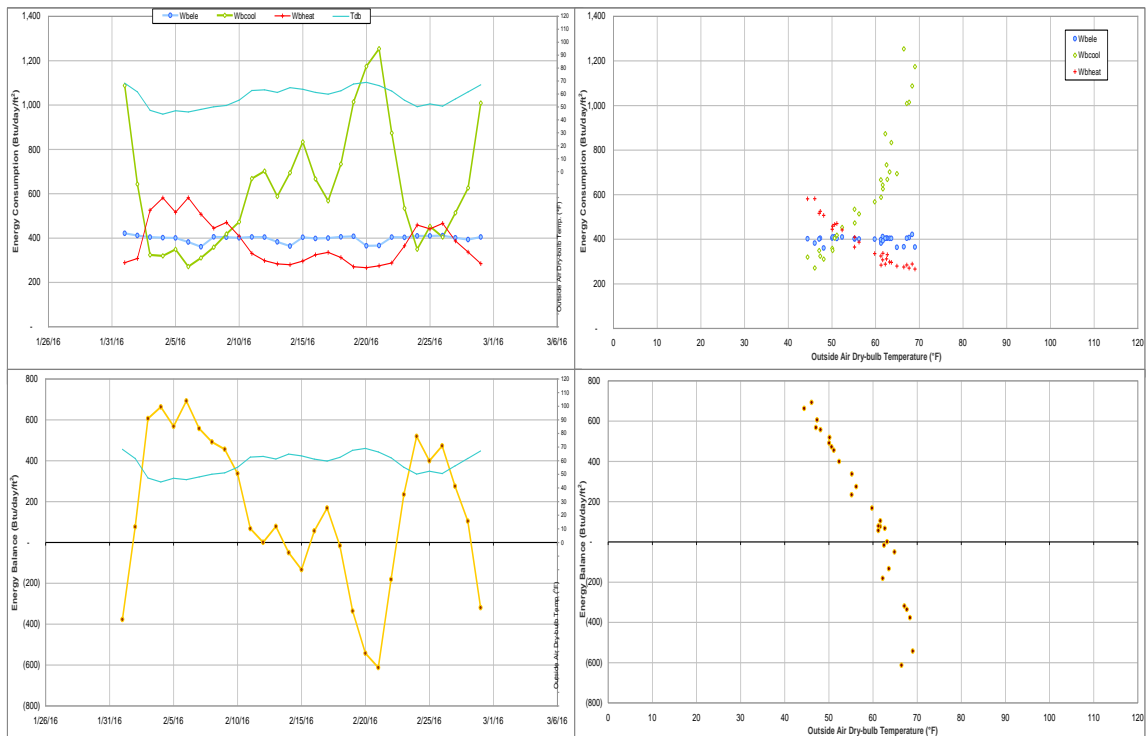


Figure IV-120 Laboratory Animal Care Building TAMU BLDG # 972 Energy Balance Plot during February 2016

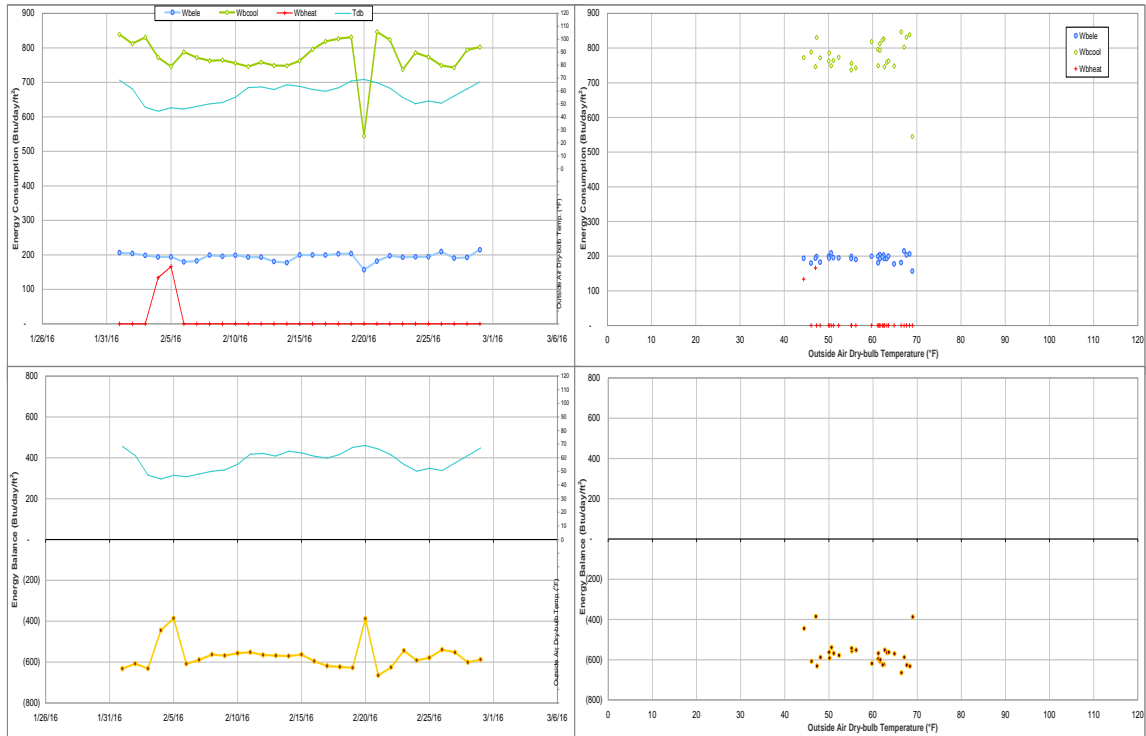


Figure IV-121 Vivarium III TAMU BLDG # 1020 Energy Balance Plot during February 2016

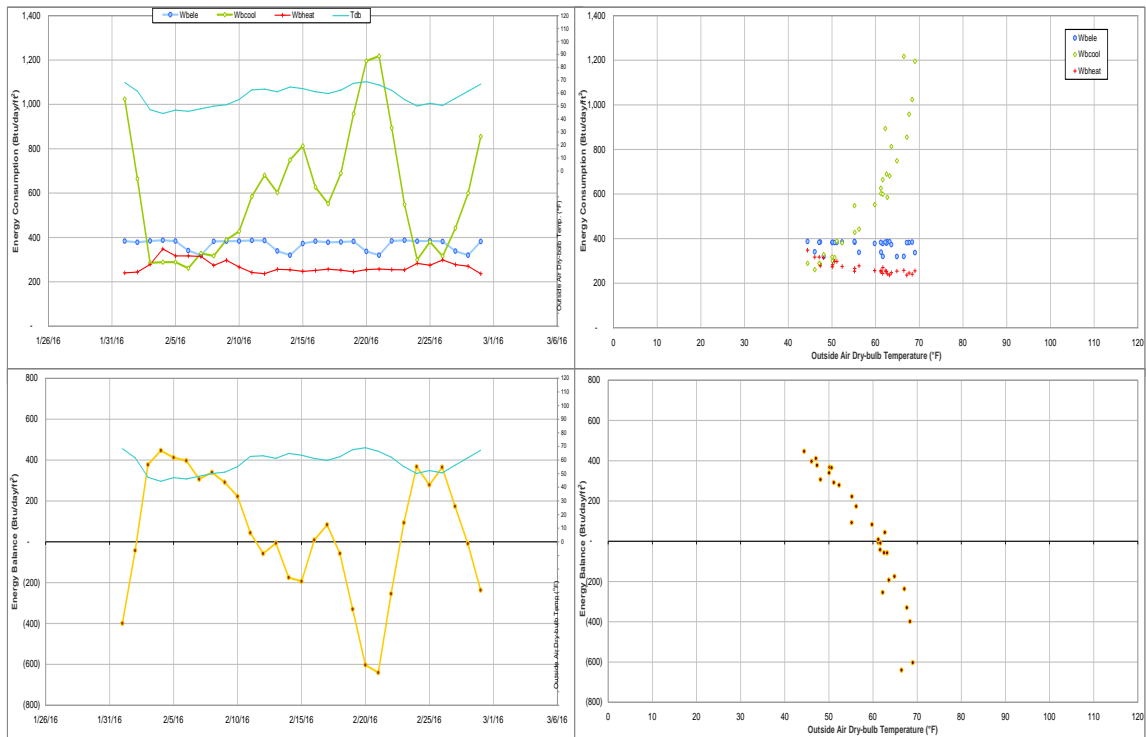


Figure IV-122 Texas Vet Med Diagnostic Lab TAMU BLDG # 1041 Energy Balance Plot during February 2016

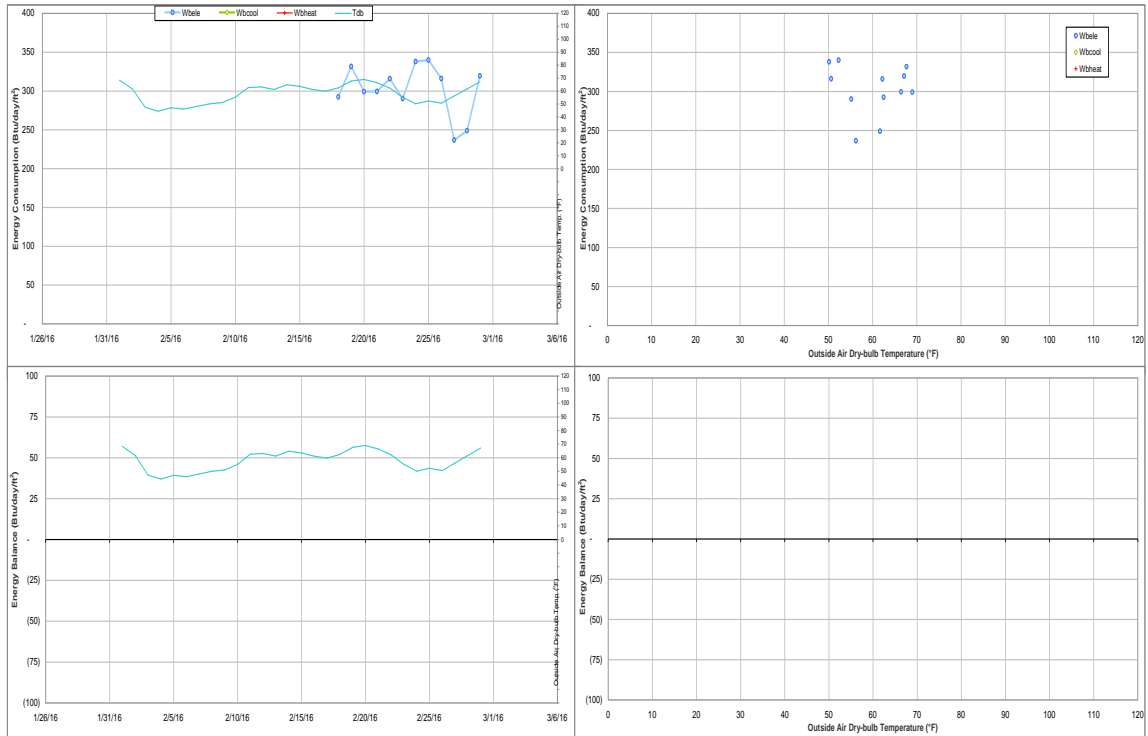


Figure IV-123 Forest Science Laboratory Building TAMU BLDG # 1042 Energy Balance Plot during February 2016

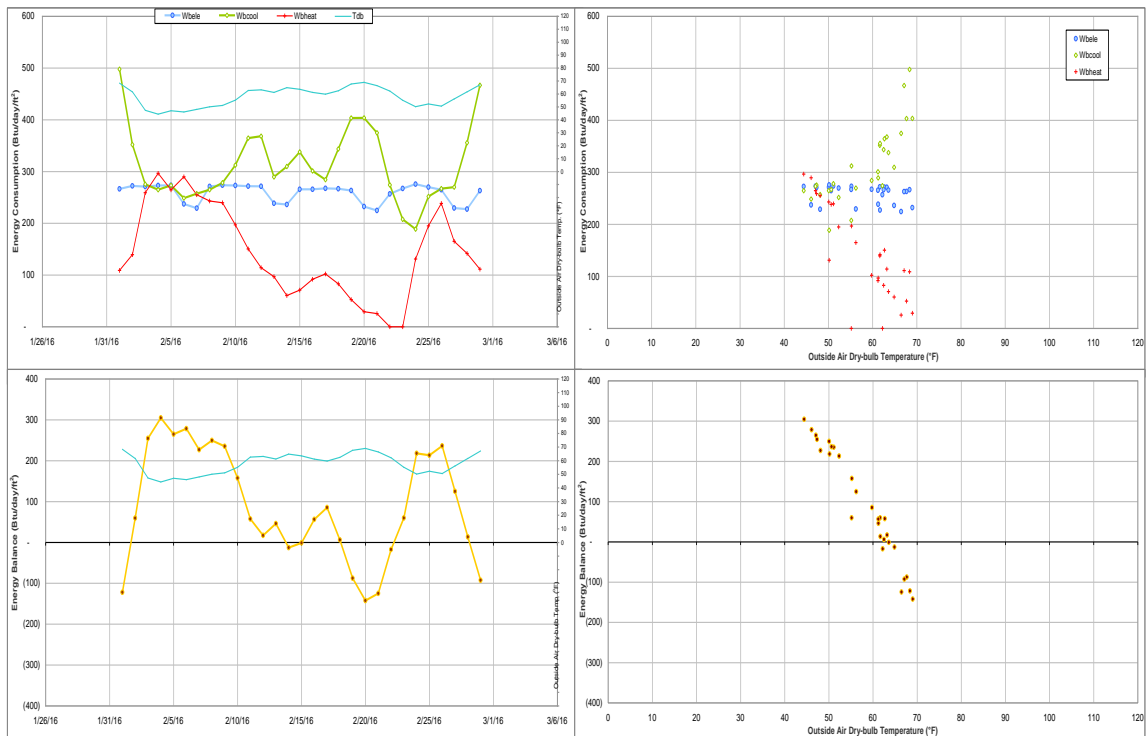


Figure IV-124 Veterinary Small Animal Hospital TAMU BLDG # 1085 Energy Balance Plot during February 2016

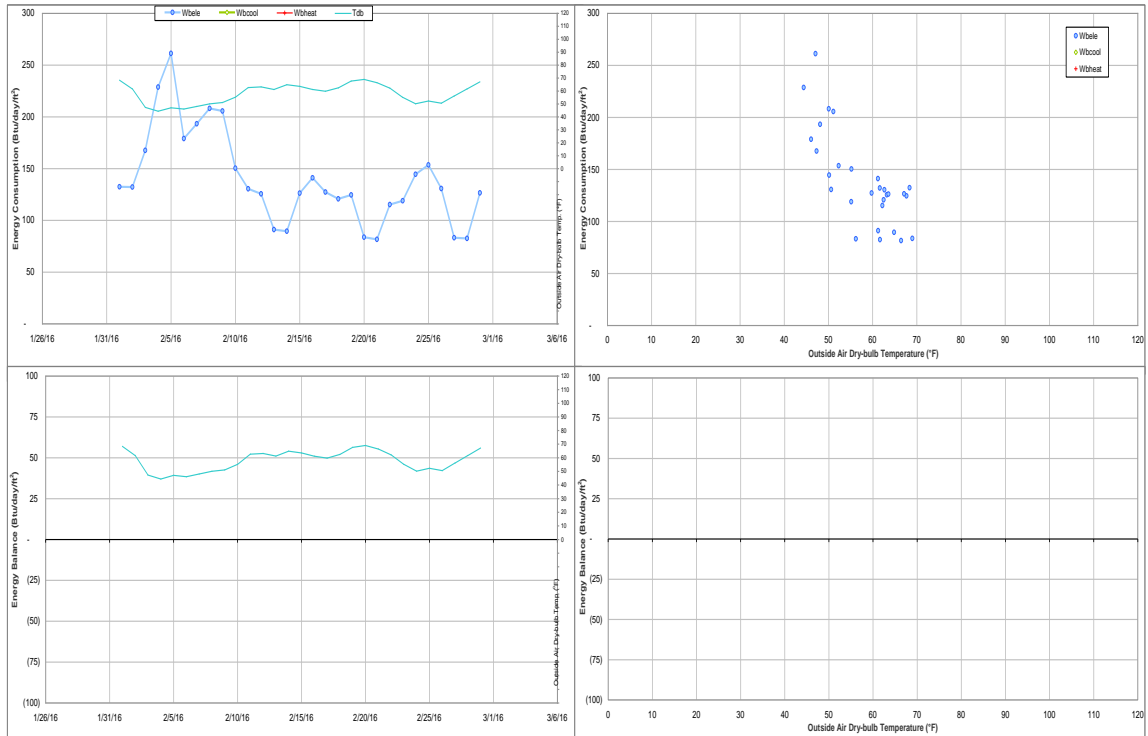


Figure IV-125 Utilities Energy Office Annex TAMU BLDG # 1089 Energy Balance Plot during February 2016

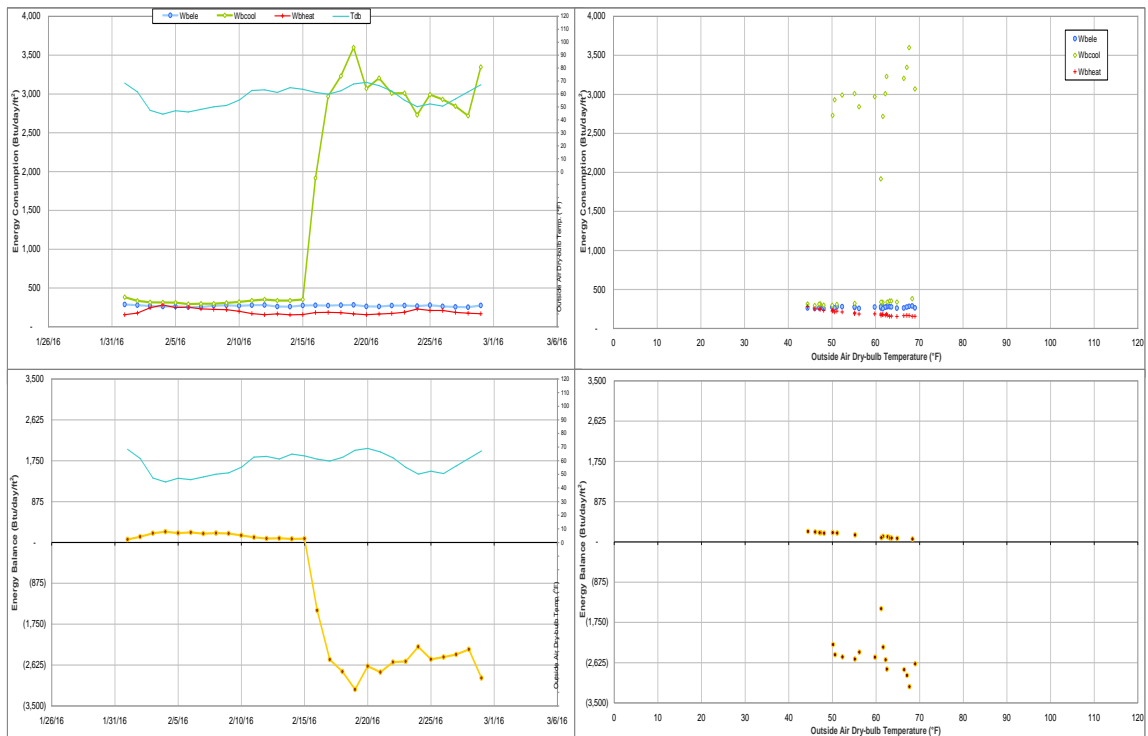


Figure IV-126 Biological Control Facility TAMU BLDG # 1146 Energy Balance Plot during February 2016

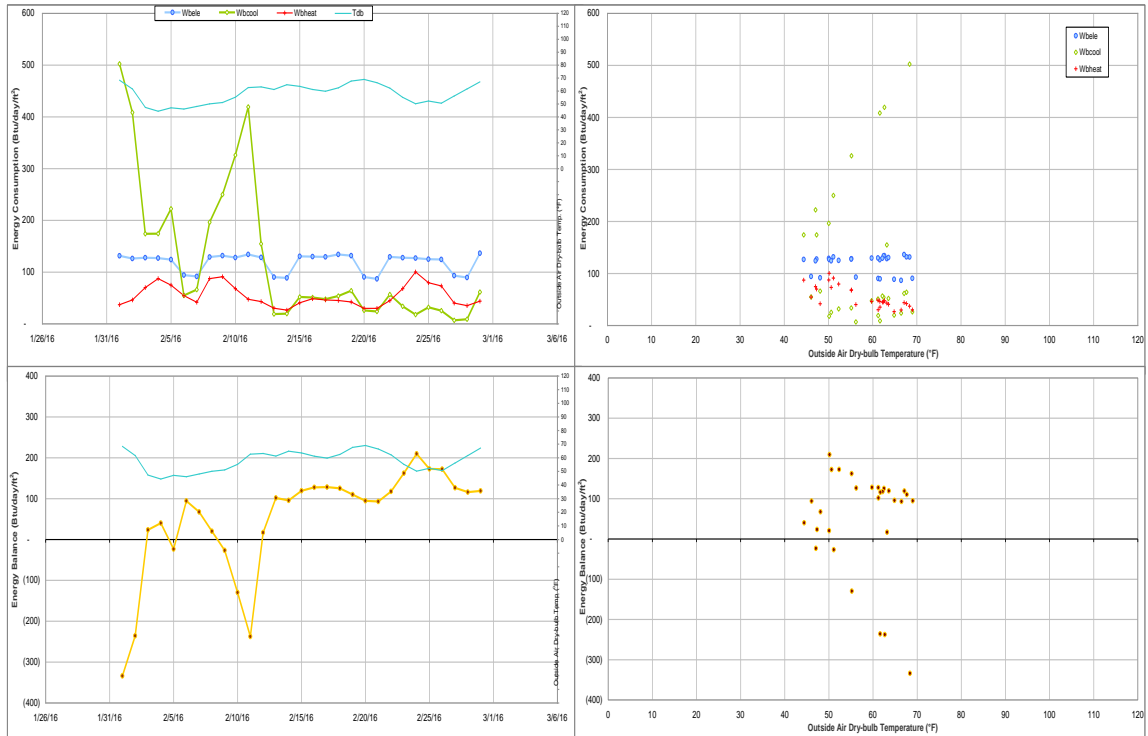


Figure IV-127 Physical Plant Administration & Shops TAMU BLDG # 1156 Energy Balance Plot during February 2016

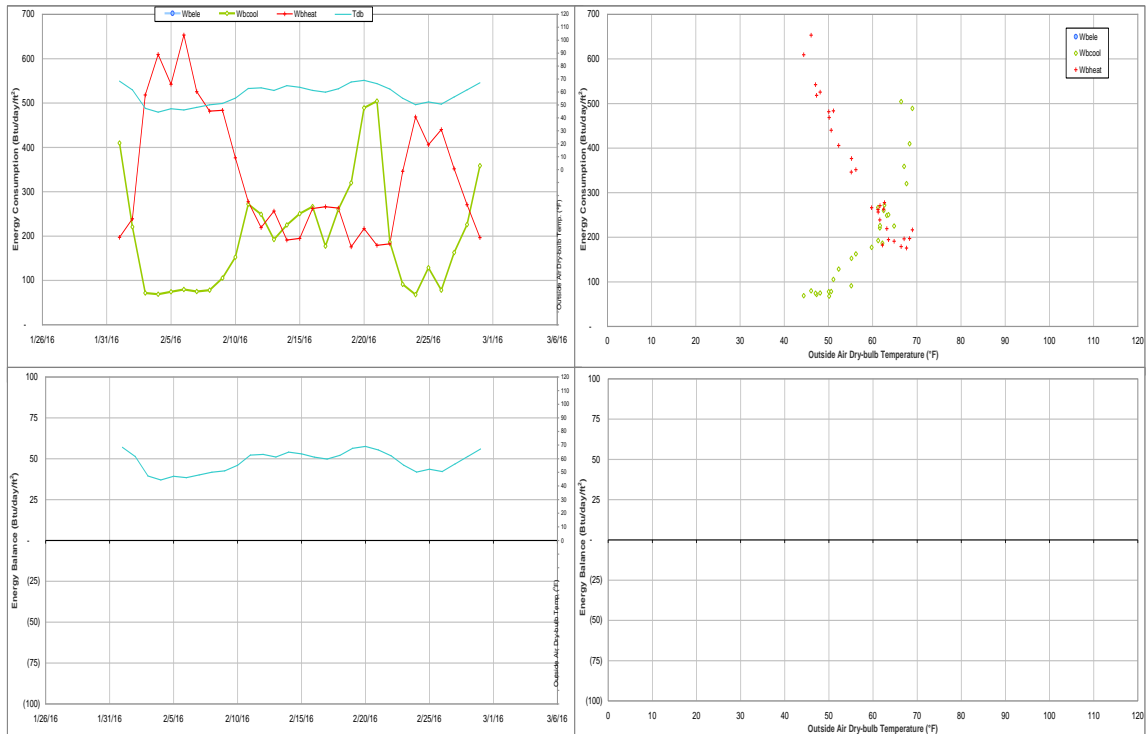


Figure IV-128 Veterinary Anatomic Pathology TAMU BLDG # 1184 Energy Balance Plot during February 2016

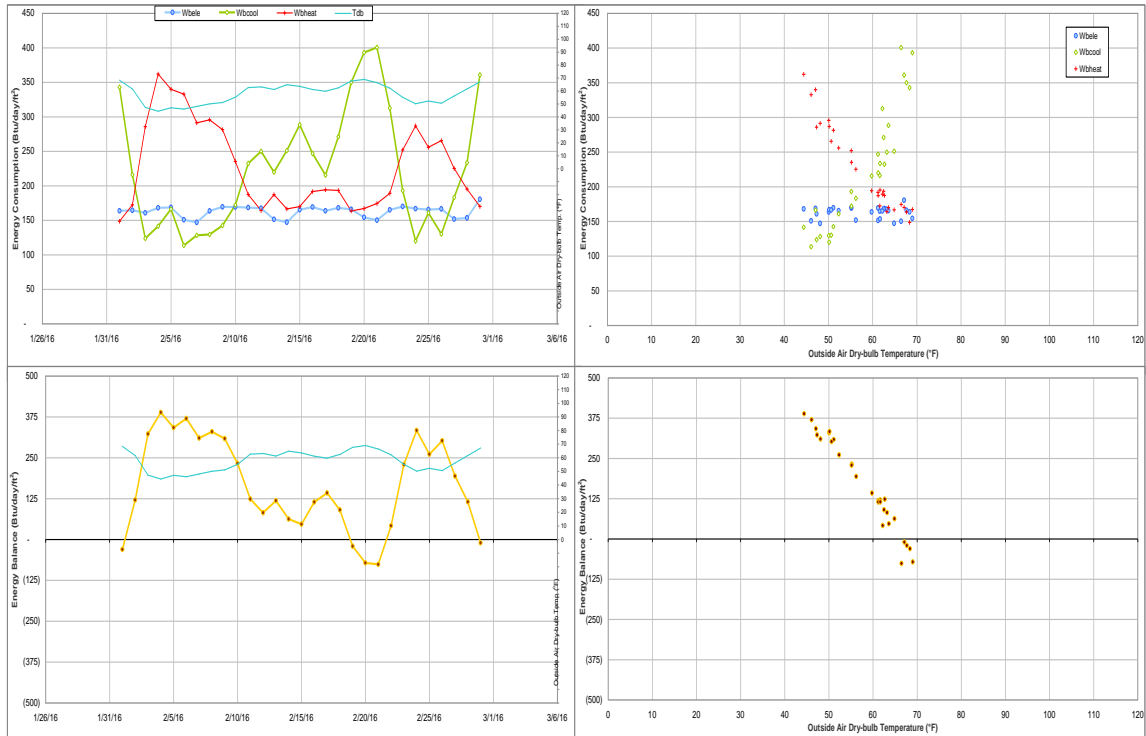


Figure IV-129 Veterinary Large Animal Hospital TAMU BLDG # 1194 Energy Balance Plot during February 2016

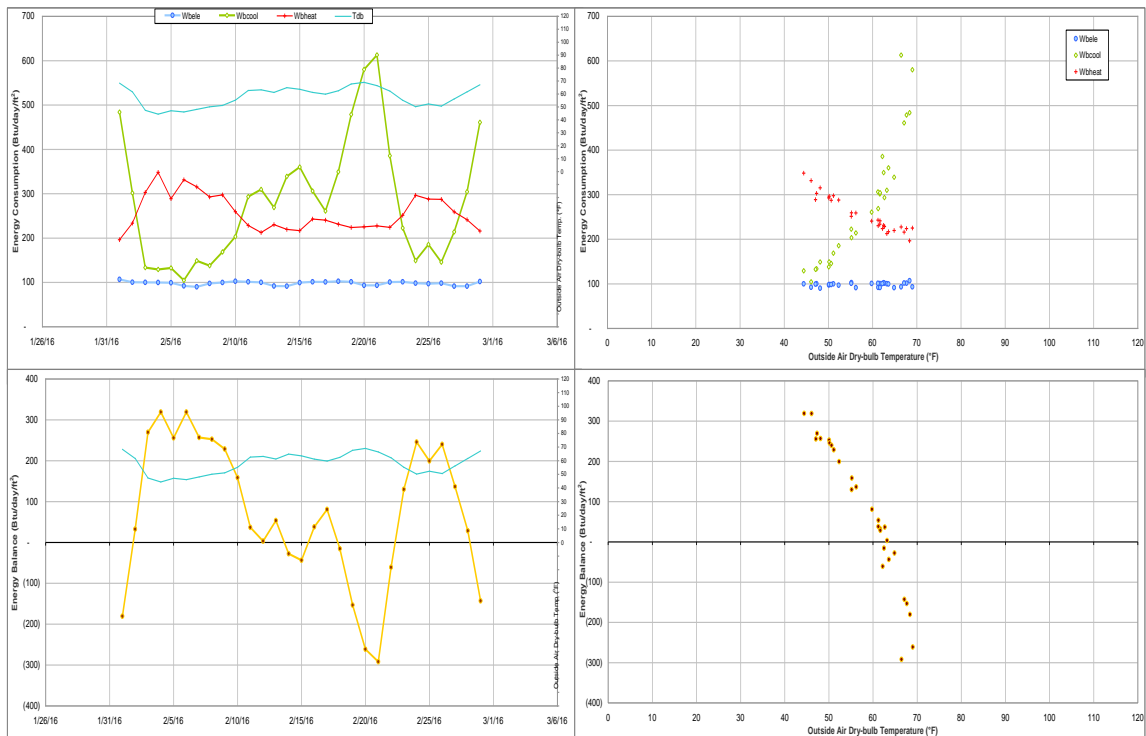


Figure IV-130 Veterinary Research Building TAMU BLDG # 1197 Energy Balance Plot during February 2016

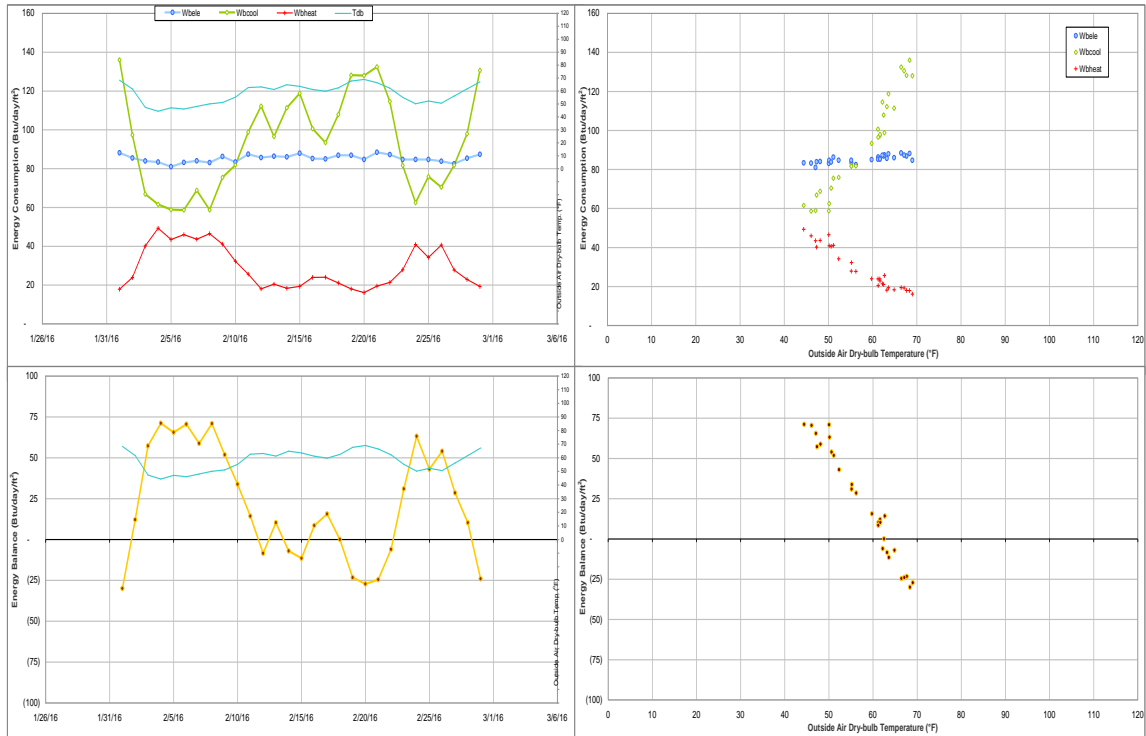


Figure IV-131 Hullabaloo Residence Hall TAMU BLDG # 1416 Energy Balance Plot during February 2016

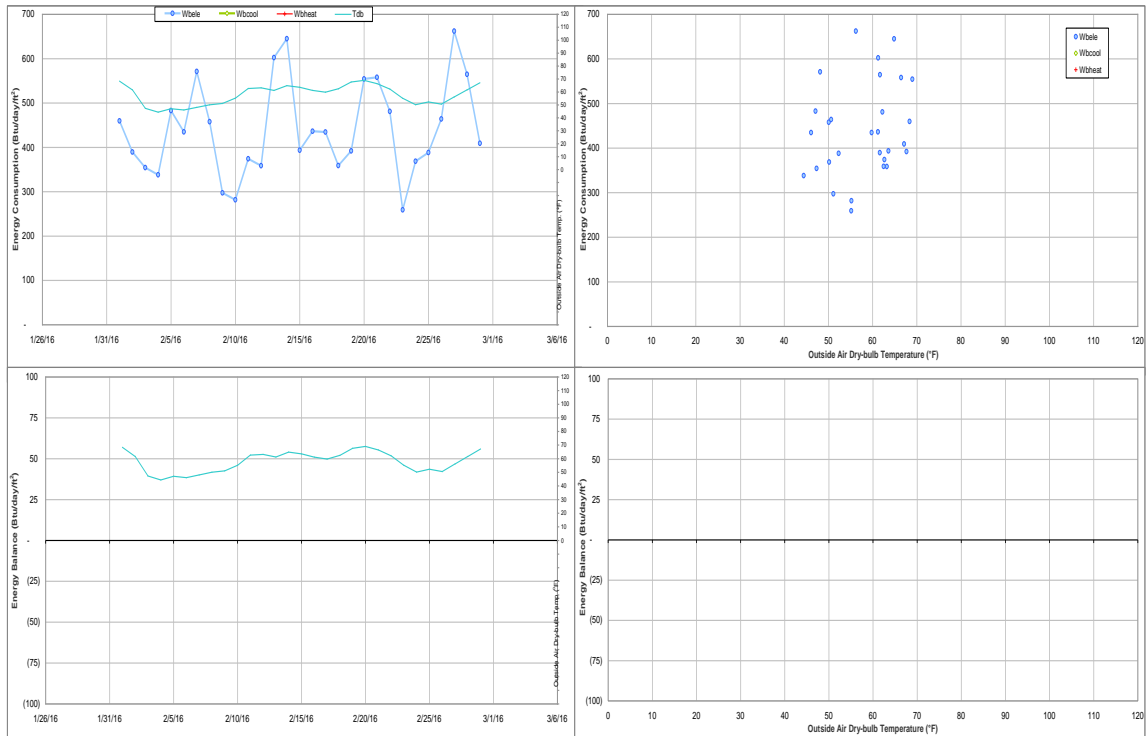


Figure IV-132 University Apartments - Laundry at the Gardens TAMU BLDG # 1450 Energy Balance Plot during February 2016

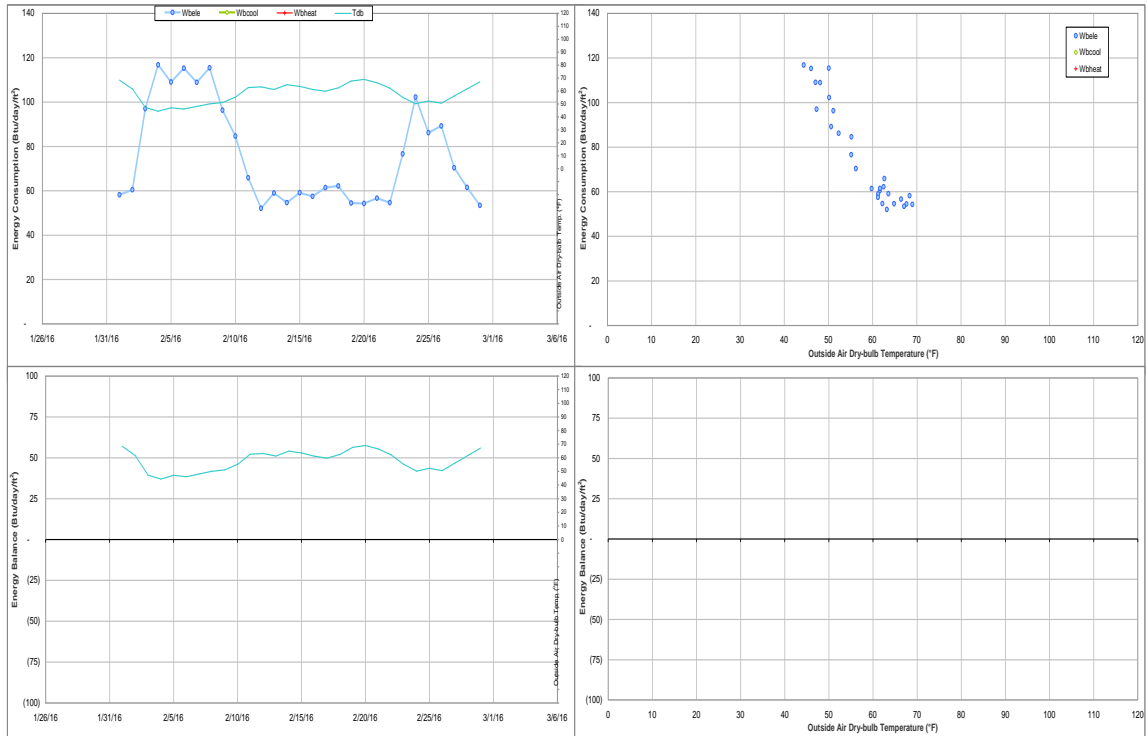


Figure IV-133 University Apartments - The Gardens J TAMU BLDG # 1451 Energy Balance Plot during February 2016

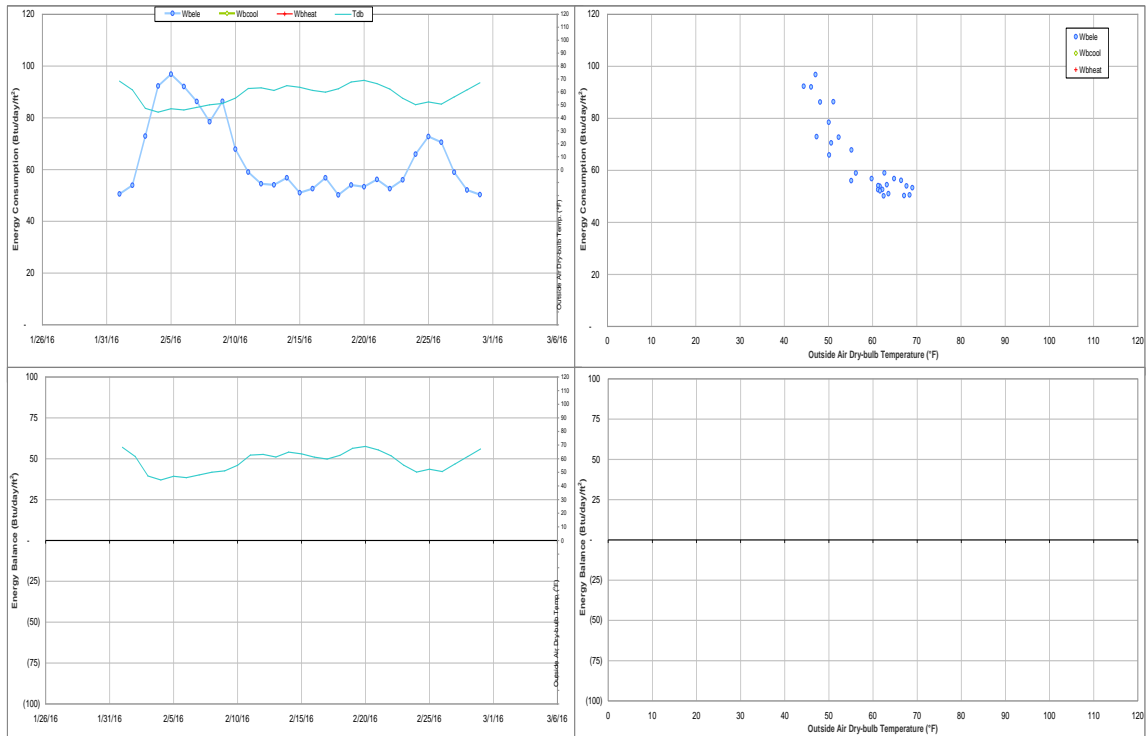


Figure IV-134 University Apartments - The Gardens L TAMU BLDG # 1453 Energy Balance Plot during February 2016

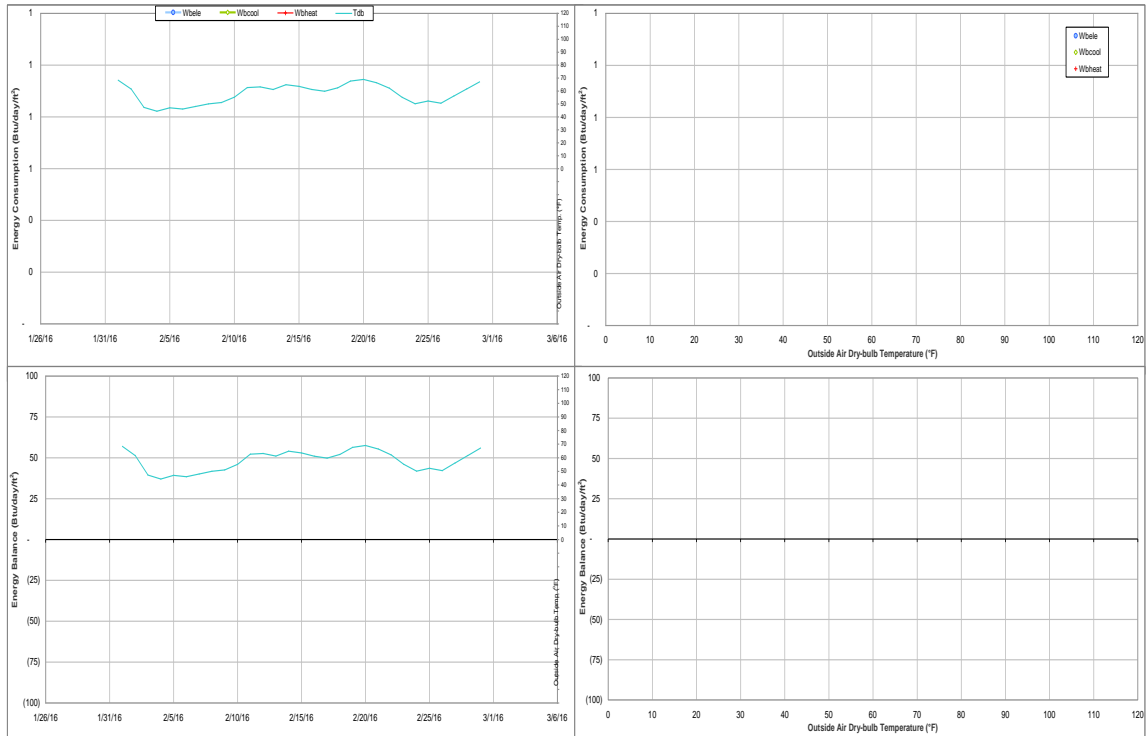


Figure IV-135 University Apartments - The Gardens F TAMU BLDG # 1454 Energy Balance Plot during February 2016

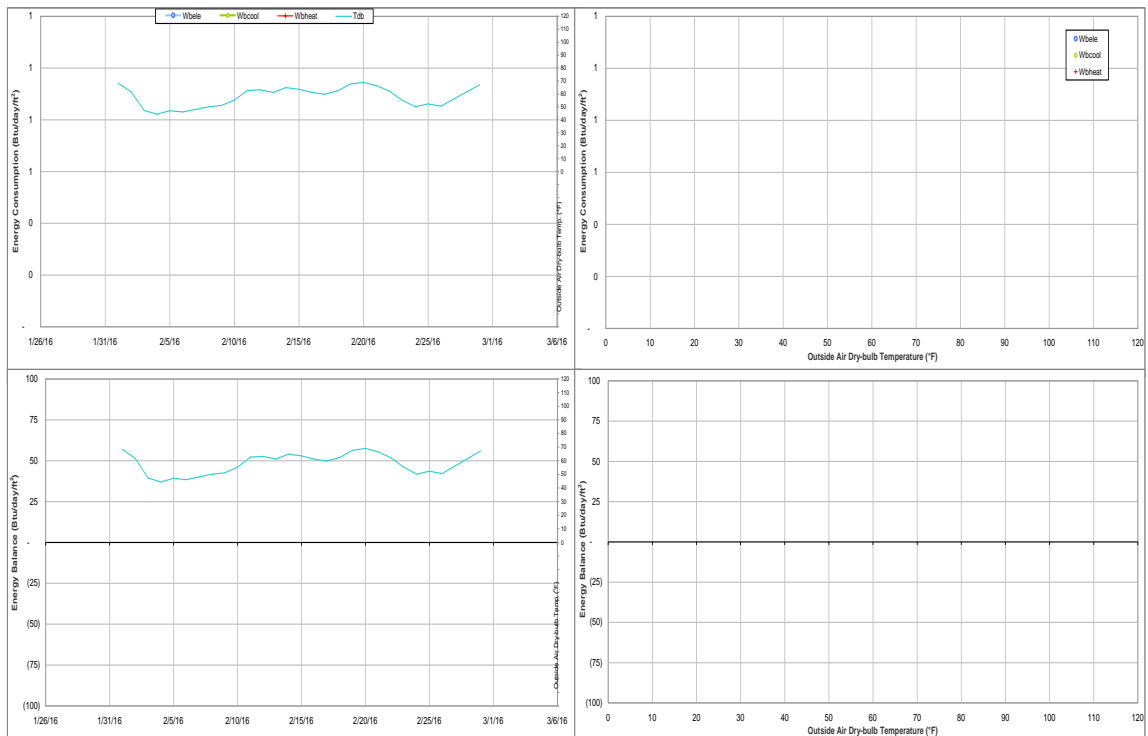


Figure IV-136 University Apartments - The Gardens G TAMU BLDG # 1455 Energy Balance Plot during February 2016

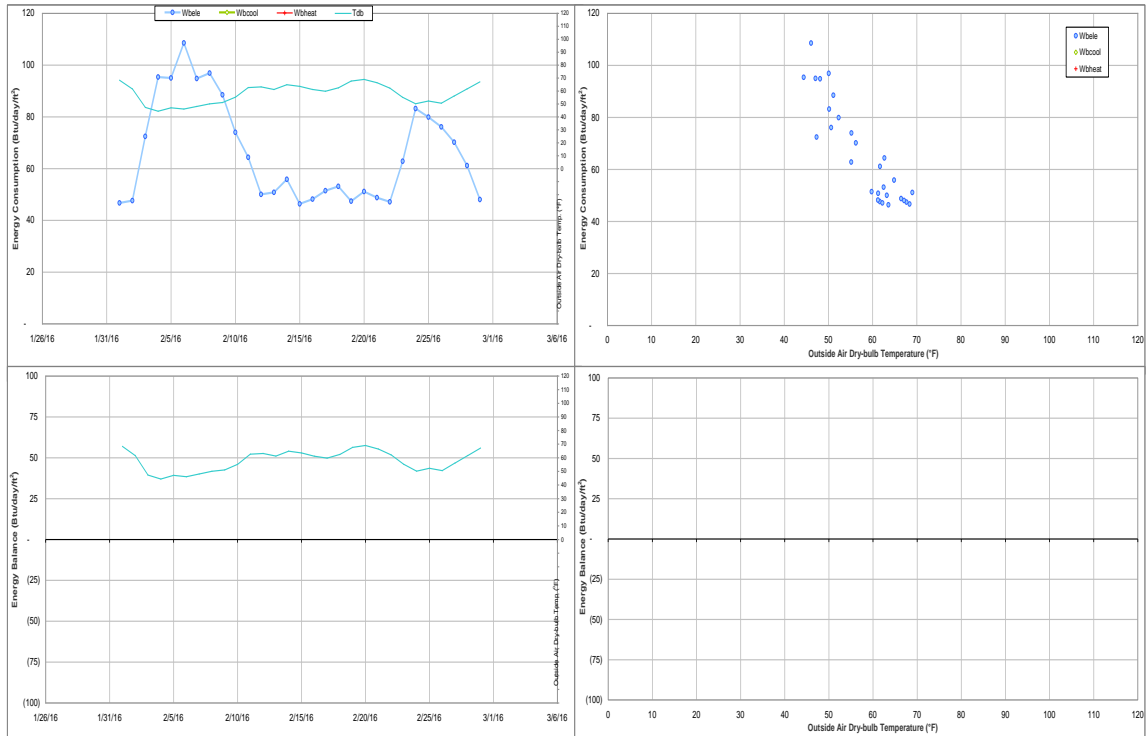


Figure IV-137 University Apartments - The Gardens H TAMU BLDG # 1456 Energy Balance Plot during February 2016

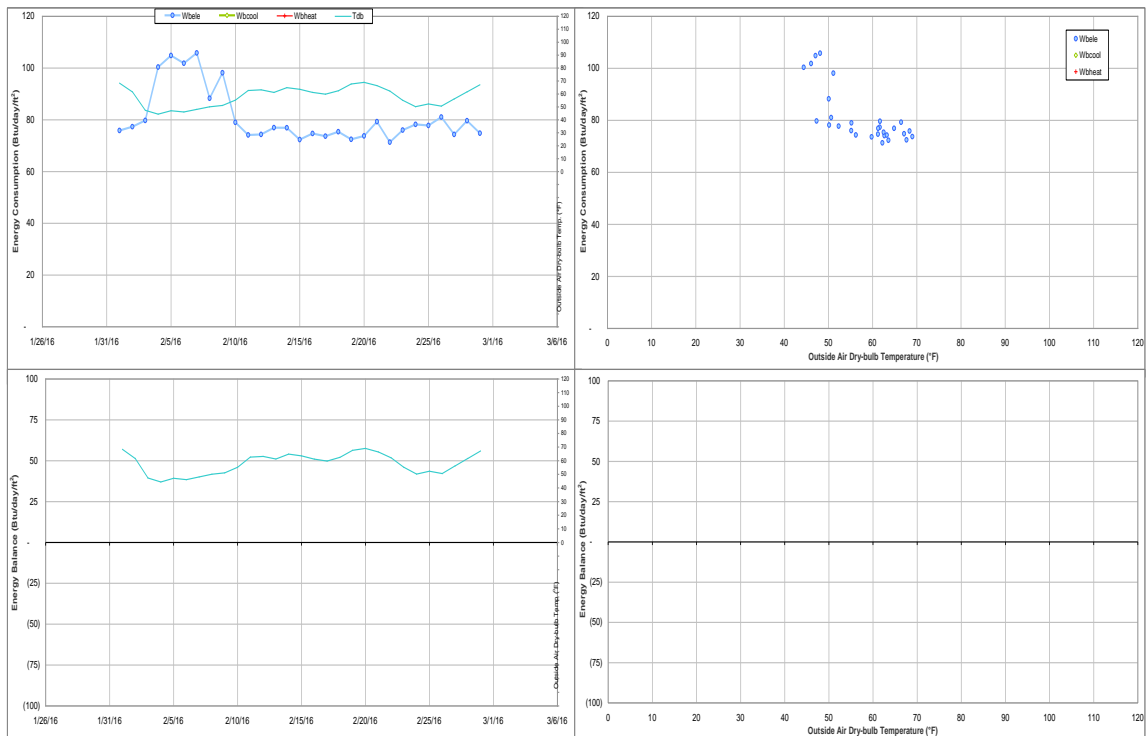


Figure IV-138 University Apartments - The Gardens M TAMU BLDG # 1457 Energy Balance Plot during February 2016

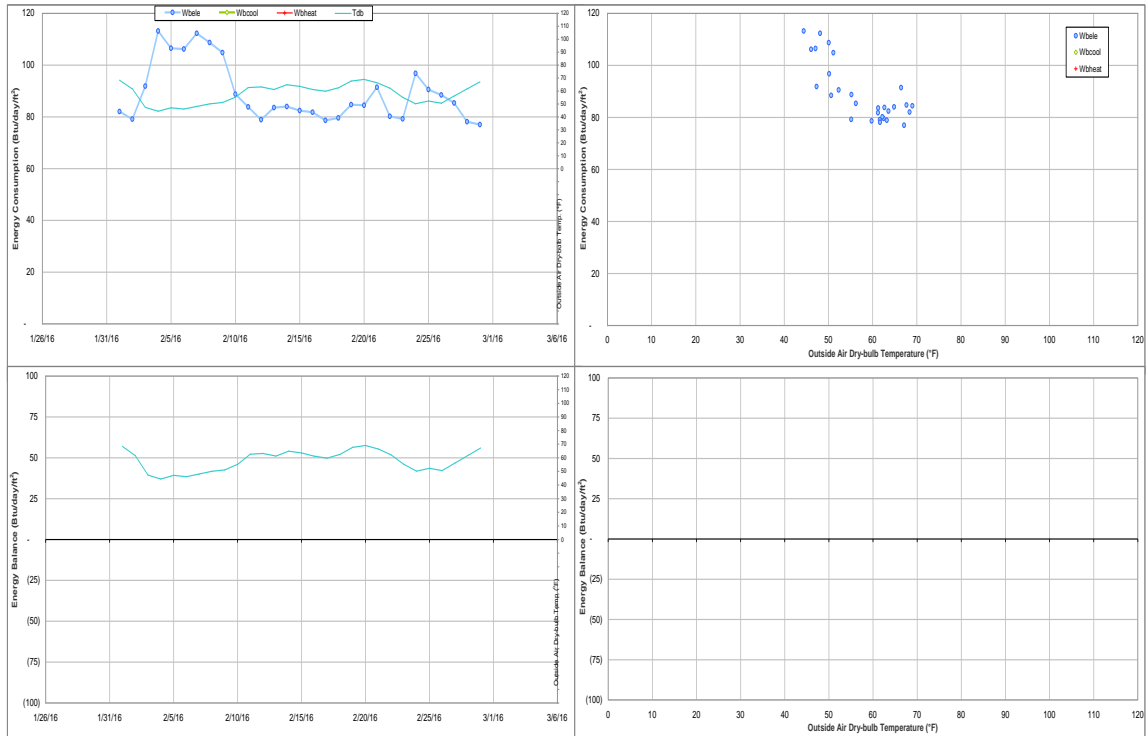


Figure IV-139 University Apartments - The Gardens N TAMU BLDG # 1458 Energy Balance Plot during February 2016

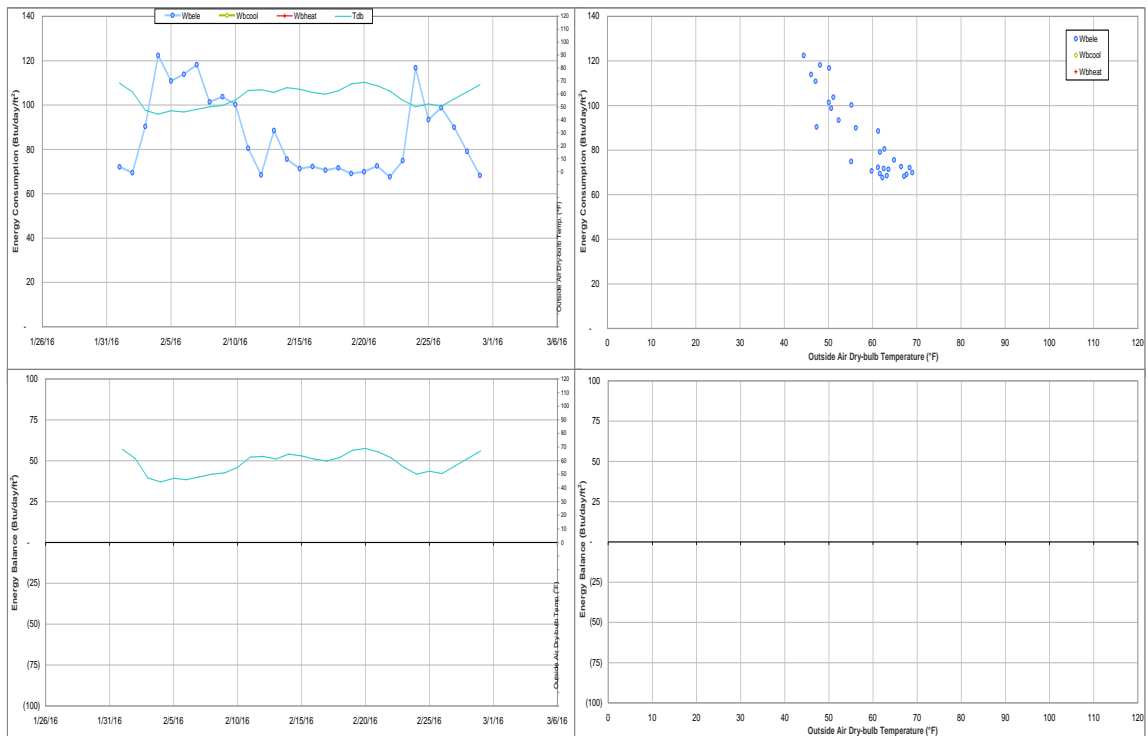


Figure IV-140 University Apartments - The Gardens P TAMU BLDG # 1459 Energy Balance Plot during February 2016

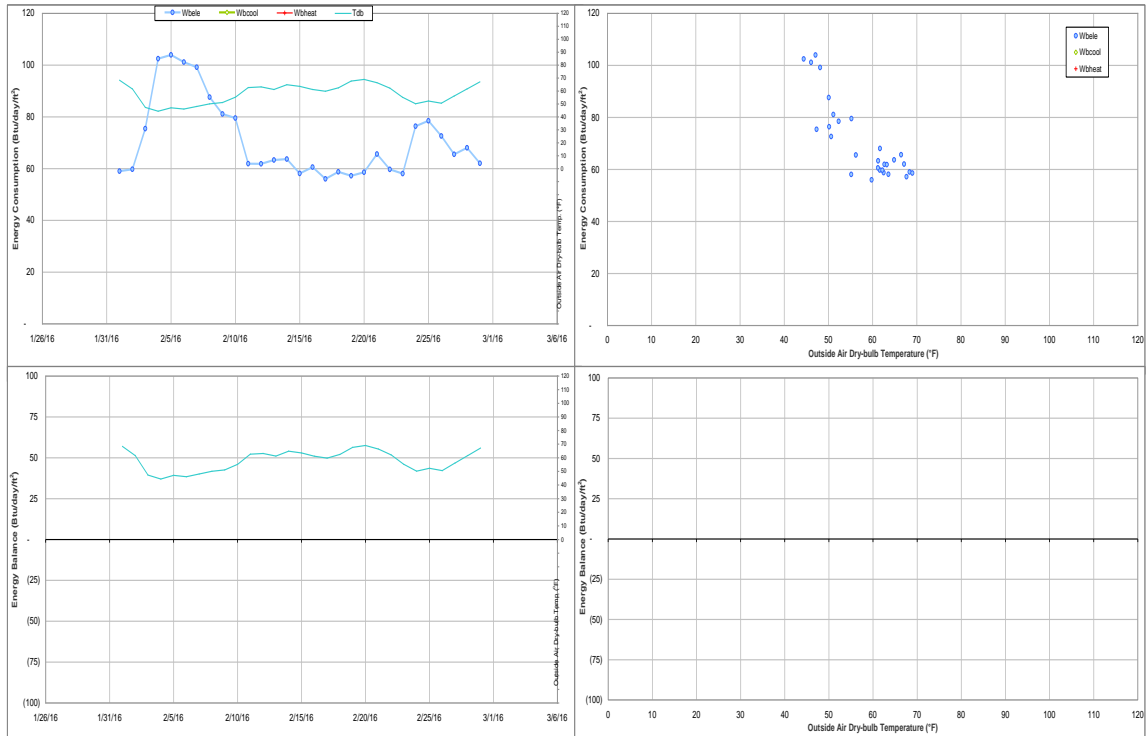


Figure IV-141 University Apartments - The Gardens Q TAMU BLDG # 1460 Energy Balance Plot during February 2016

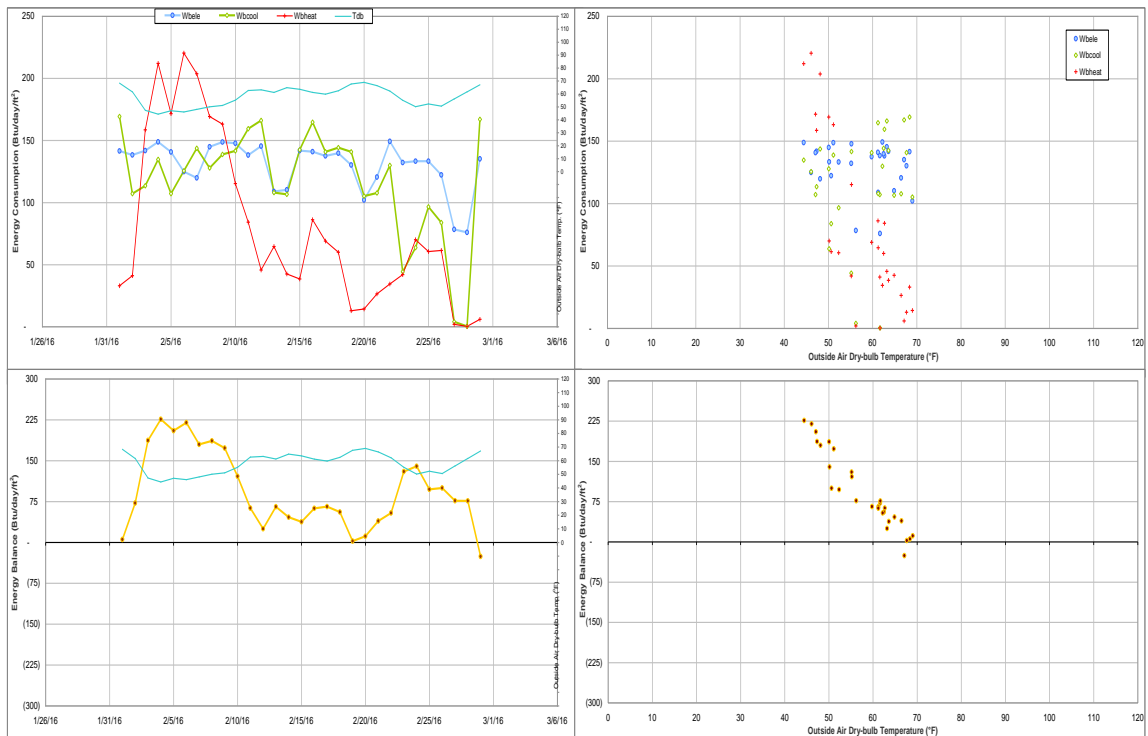


Figure IV-142 Utilities & Energy Services Business Office TAMU BLDG # 1497 Energy Balance Plot during February 2016

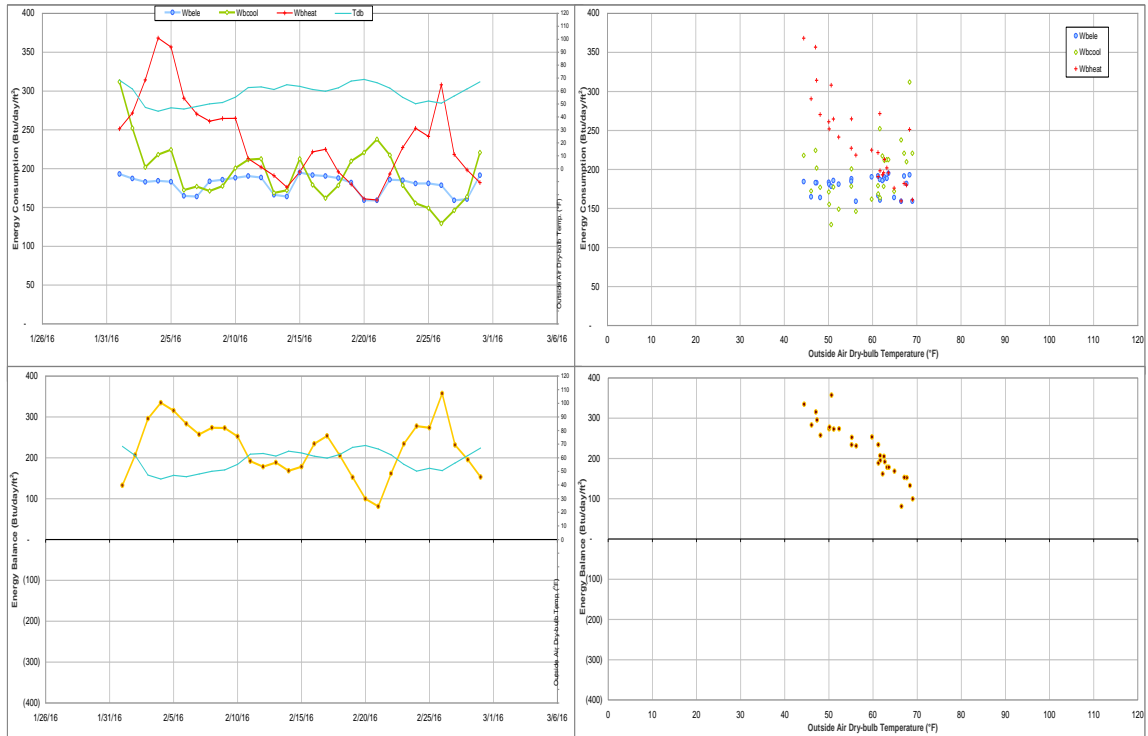


Figure IV-143 Kleberg Center TAMU BLDG # 1501 Energy Balance Plot during February 2016

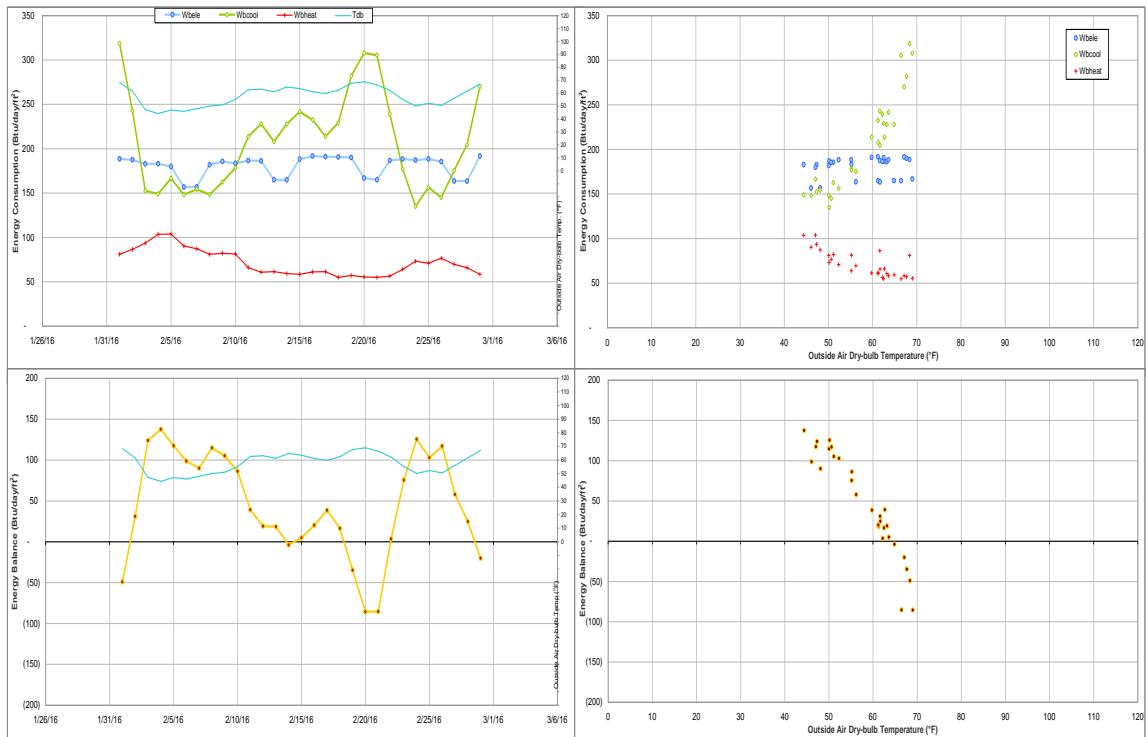


Figure IV-144 Heep Center TAMU BLDG # 1502 Energy Balance Plot during February 2016

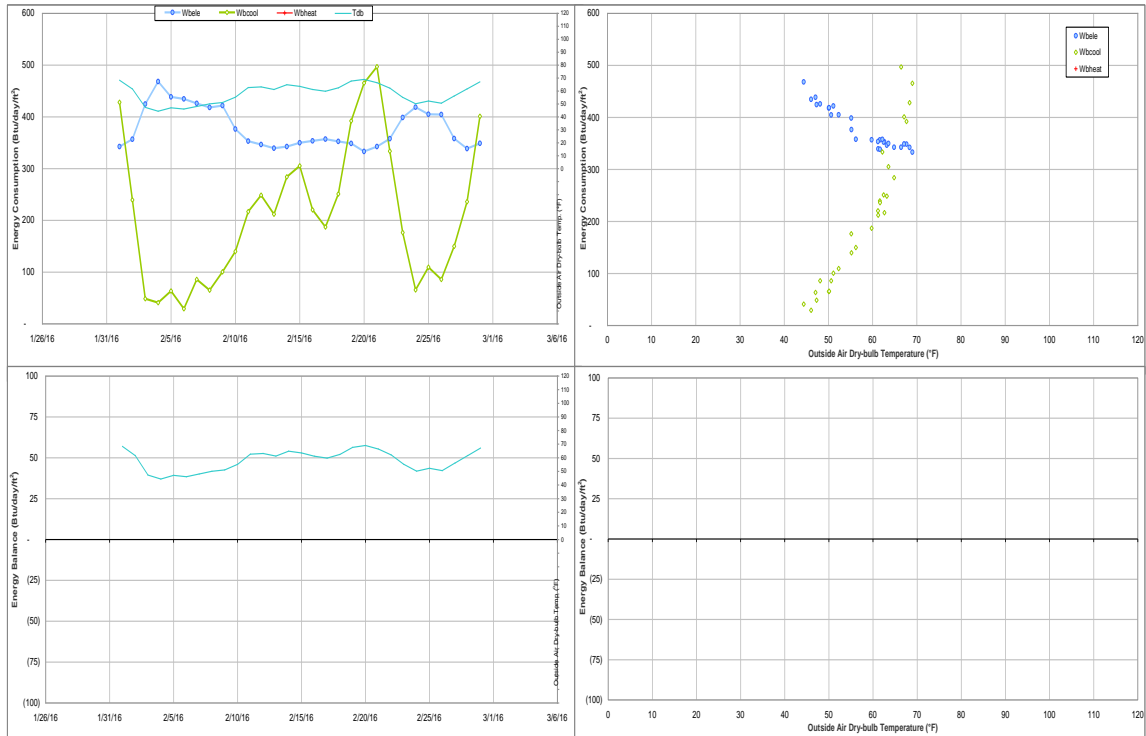


Figure IV-145 Cater-Mattil Hall TAMU BLDG # 1503 Energy Balance Plot during February 2016

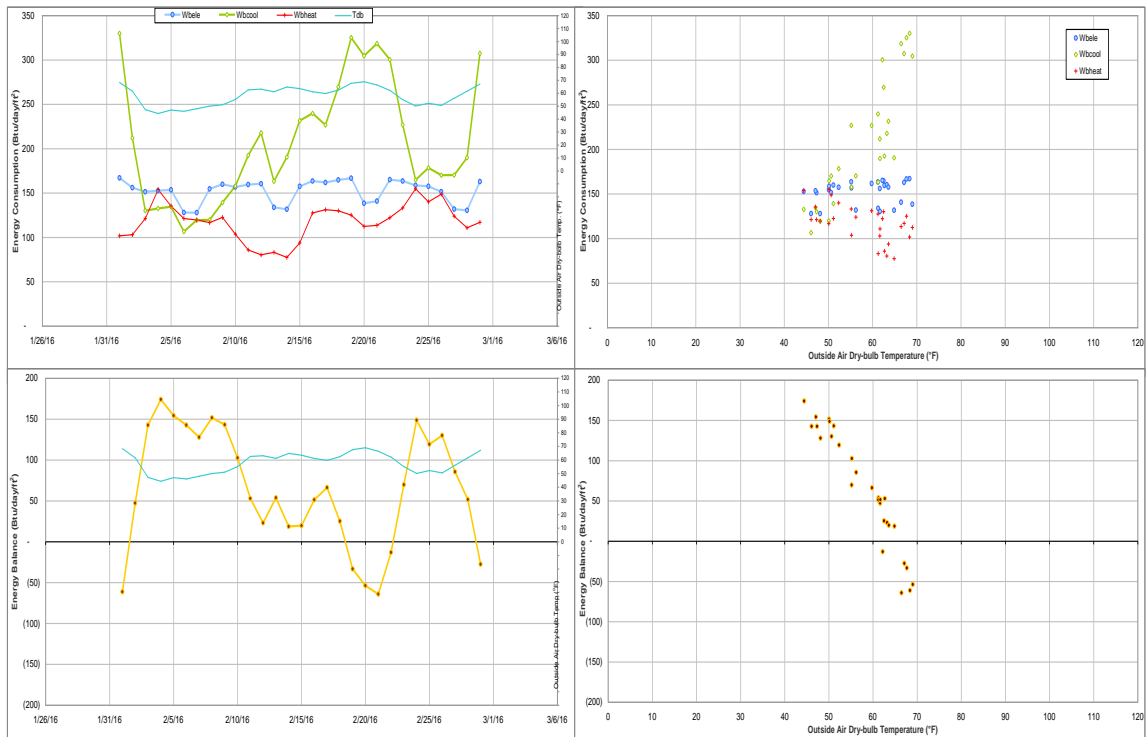


Figure IV-146 Reynolds Medical Sciences Building TAMU BLDG # 1504 Energy Balance Plot during February 2016

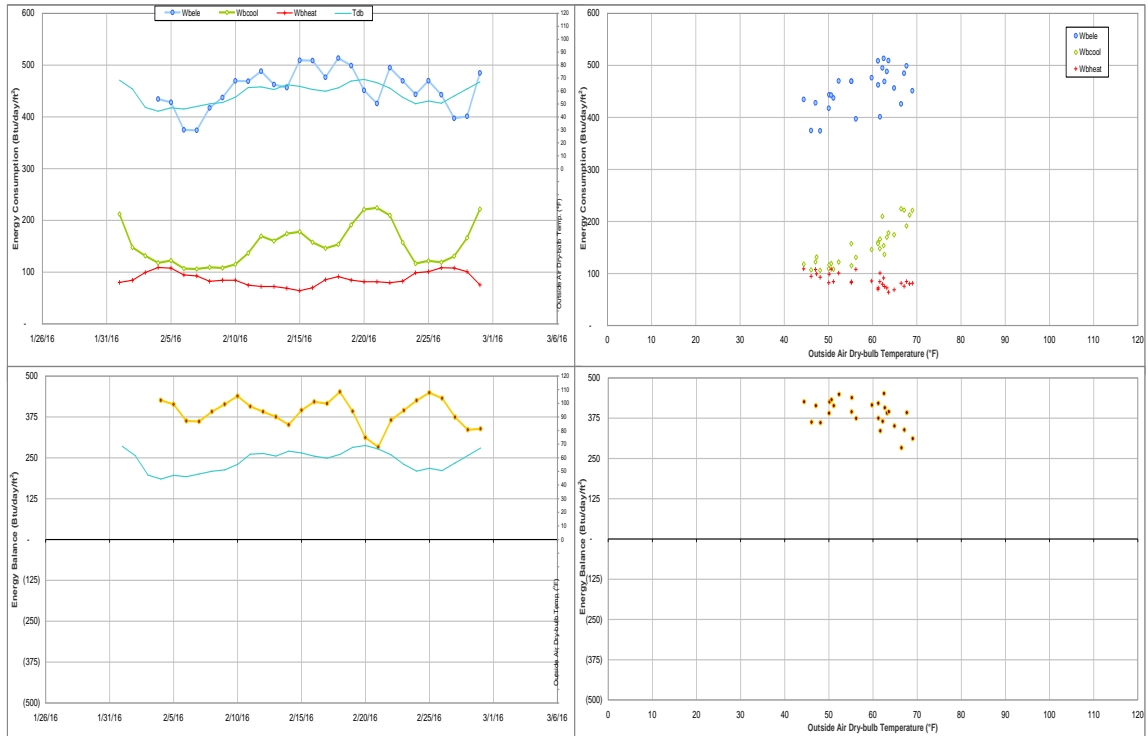


Figure IV-147 Rosenthal Meat Science & Technology Center TAMU BLDG # 1505 Energy Balance Plot during February 2016

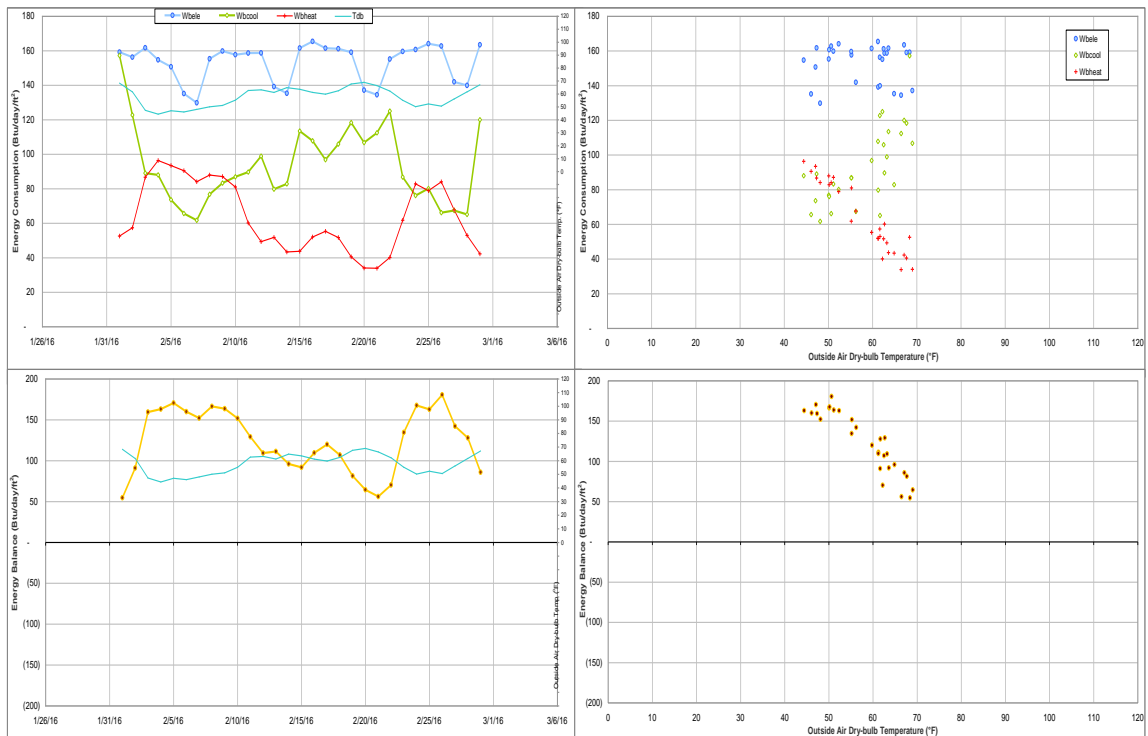


Figure IV-148 Horticulture-Forest Science Building TAMU BLDG # 1506 Energy Balance Plot during February 2016

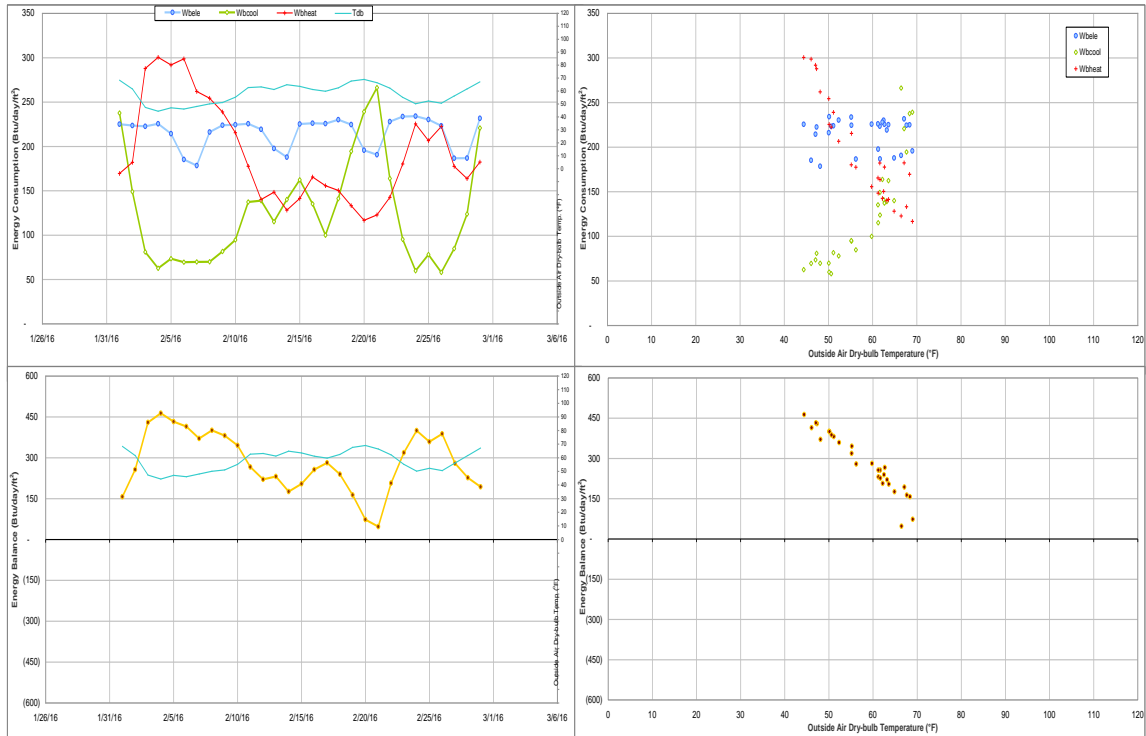


Figure IV-149 Biochemistry-Biophysics Building TAMU BLDG # 1507 Energy Balance Plot during February 2016

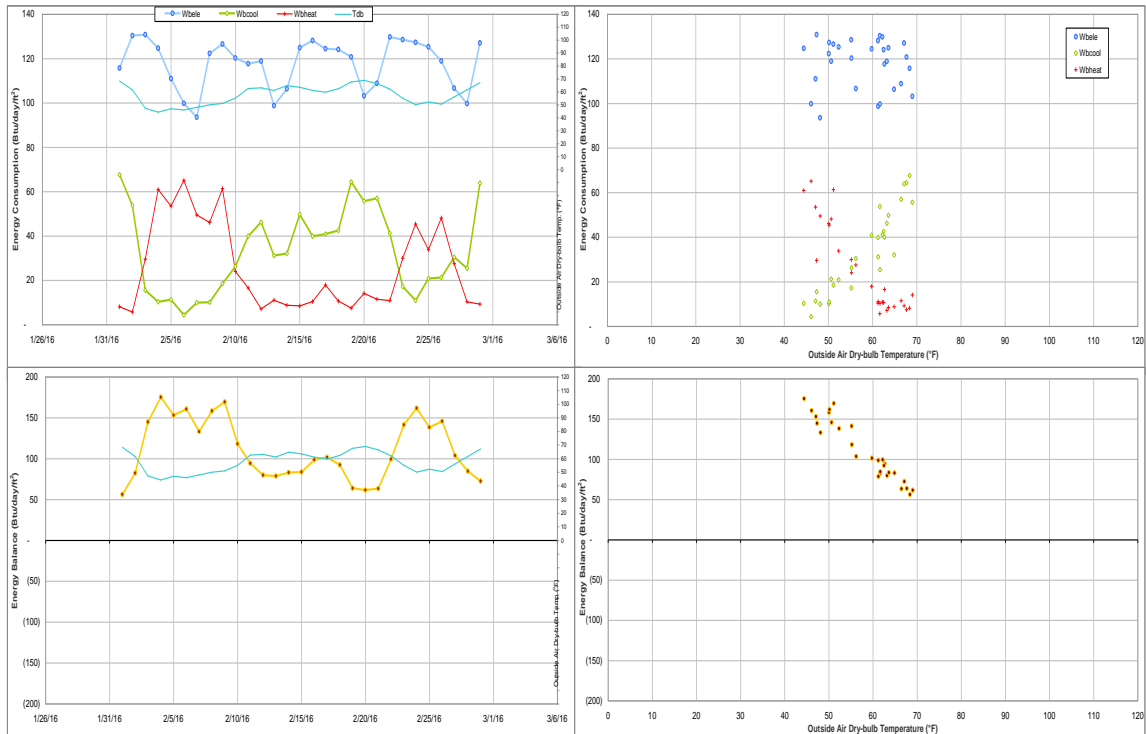


Figure IV-150 Price Hobgood Ag. Engineering Research Lab TAMU BLDG # 1508 Energy Balance Plot during February 2016

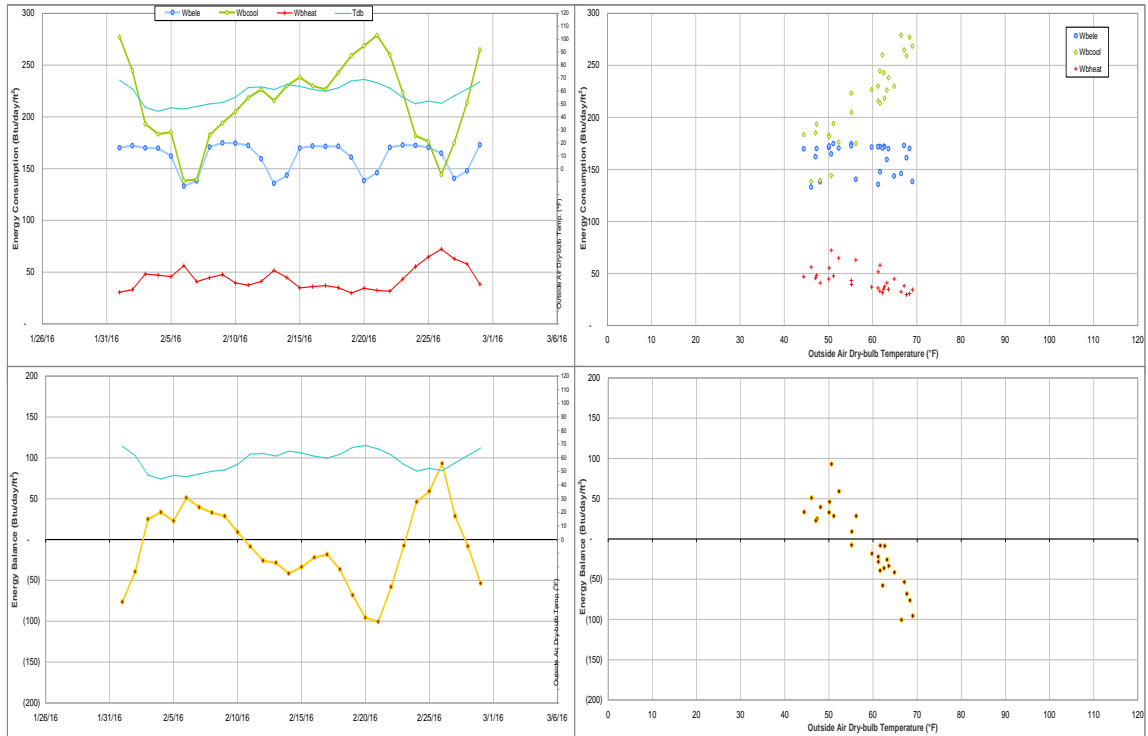


Figure IV-151 Medical Sciences Library TAMU BLDG # 1509 Energy Balance Plot during February 2016

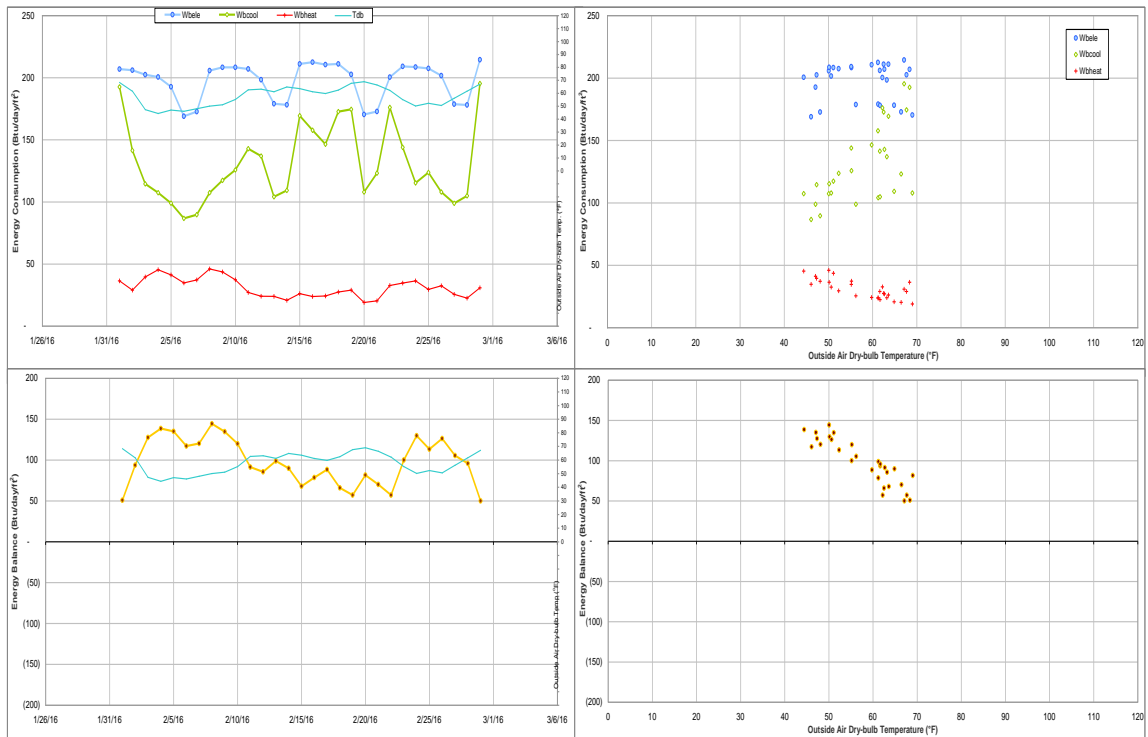


Figure IV-152 Wehner Building TAMU BLDG # 1510 Energy Balance Plot during February 2016

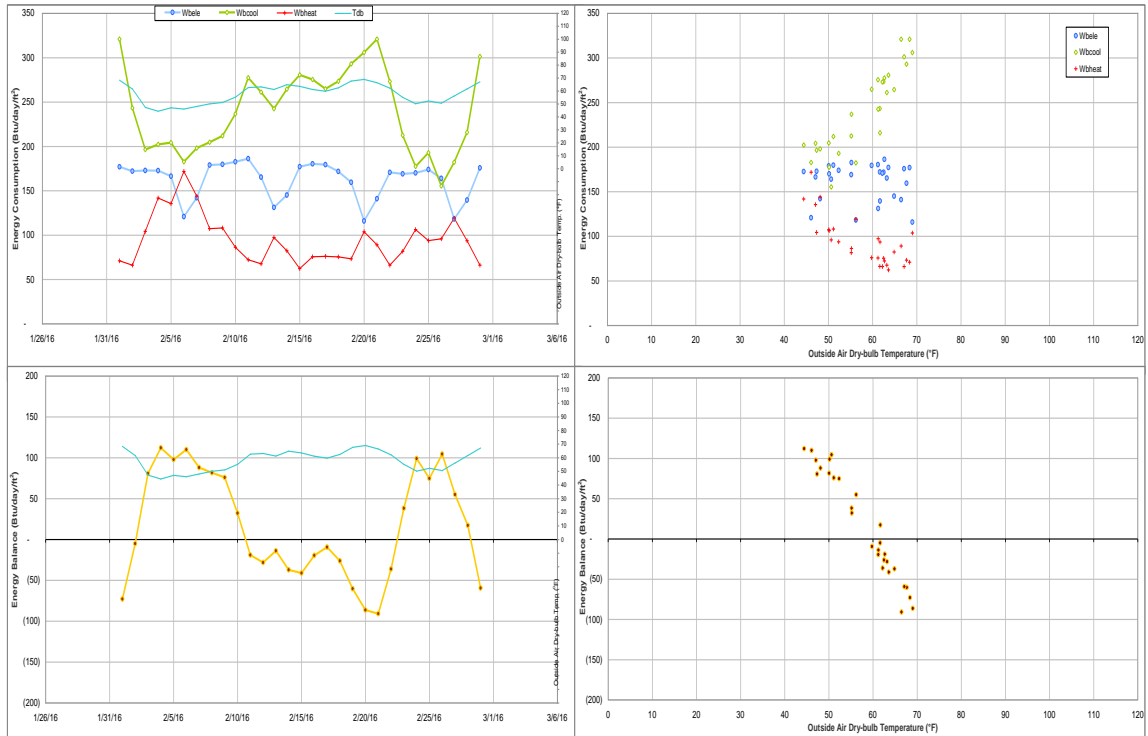


Figure IV-153 West Campus Library Facility TAMU BLDG # 1511 Energy Balance Plot during February 2016

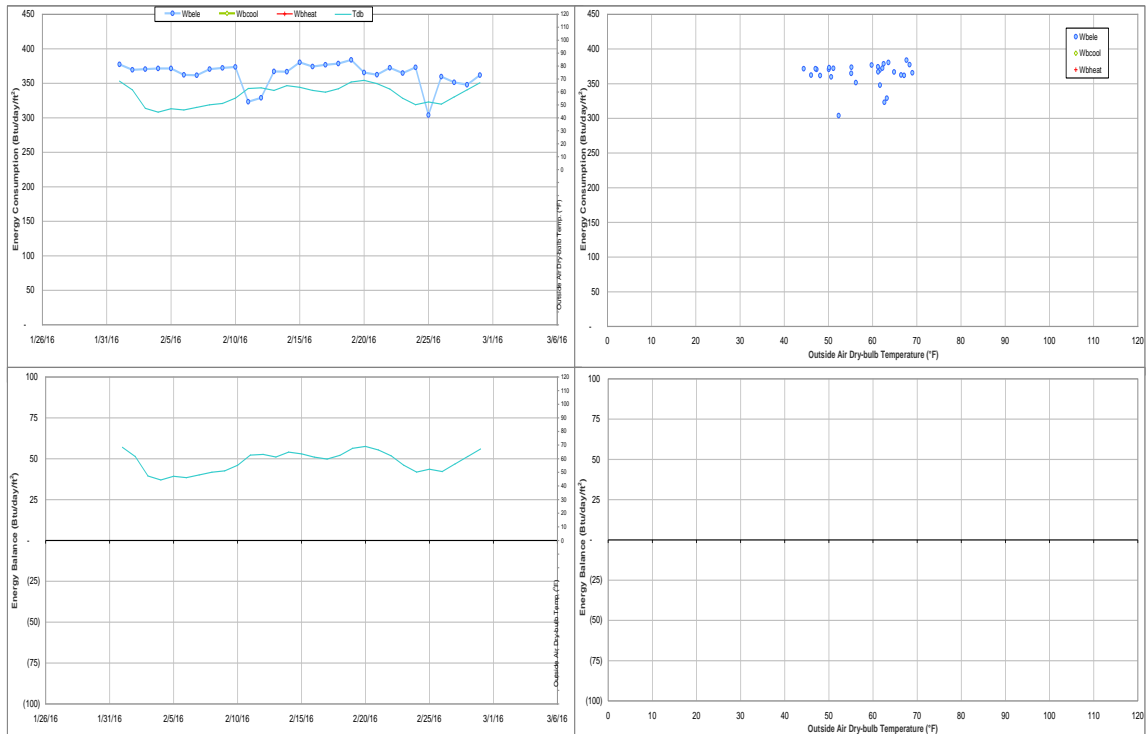


Figure IV-154 Southern Crop Improvement Greenhouse TAMU BLDG # 1512 Energy Balance Plot during February 2016

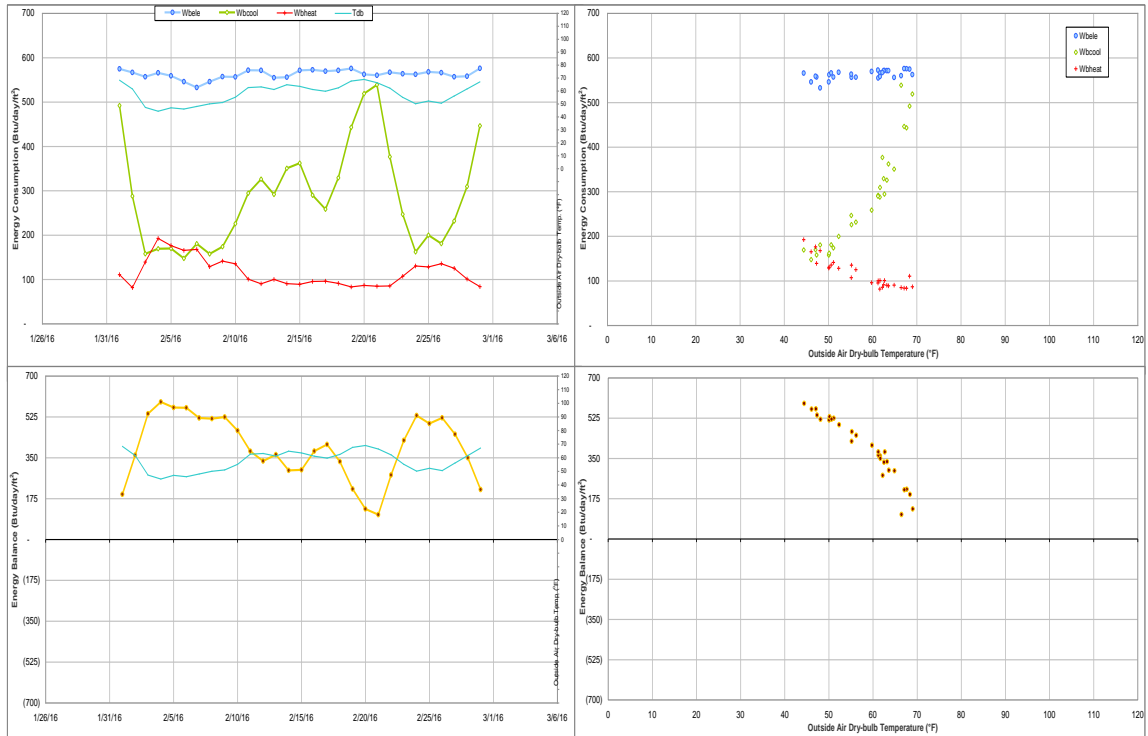


Figure IV-155 Borlaug Center for Southern Crop Improvement TAMU BLDG # 1513 Energy Balance Plot during February 2016

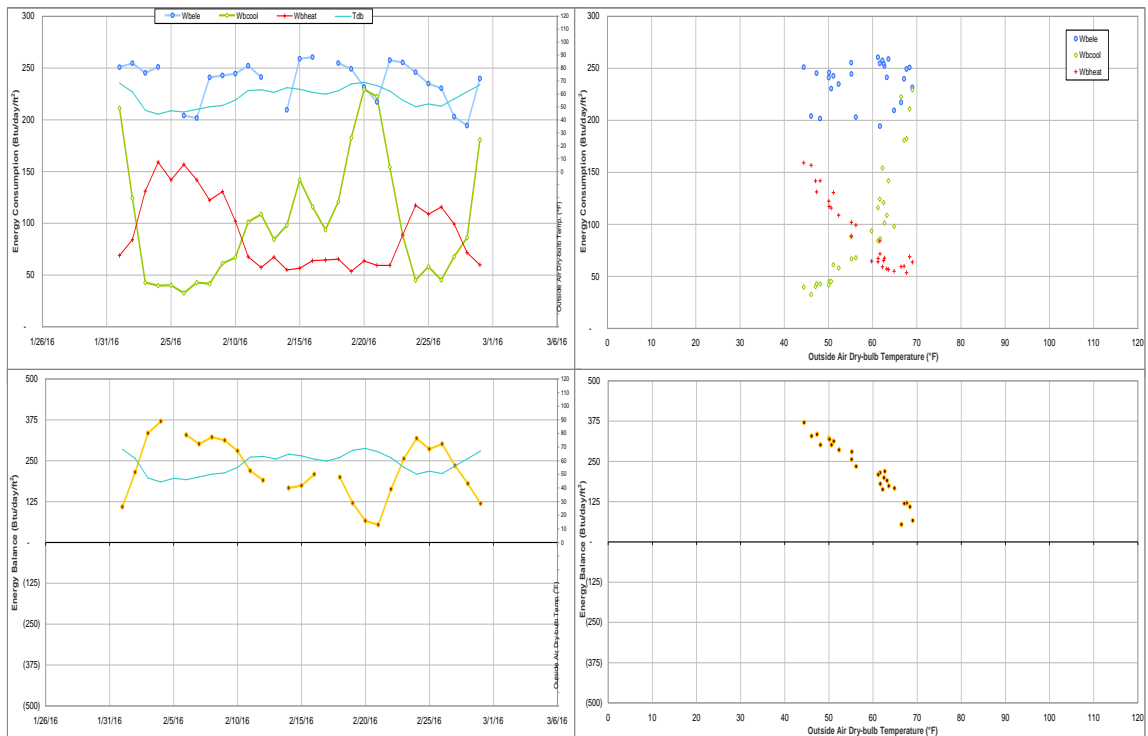


Figure IV-156 TX School of Rural Public Health TAMU BLDG # 1518 Energy Balance Plot during February 2016

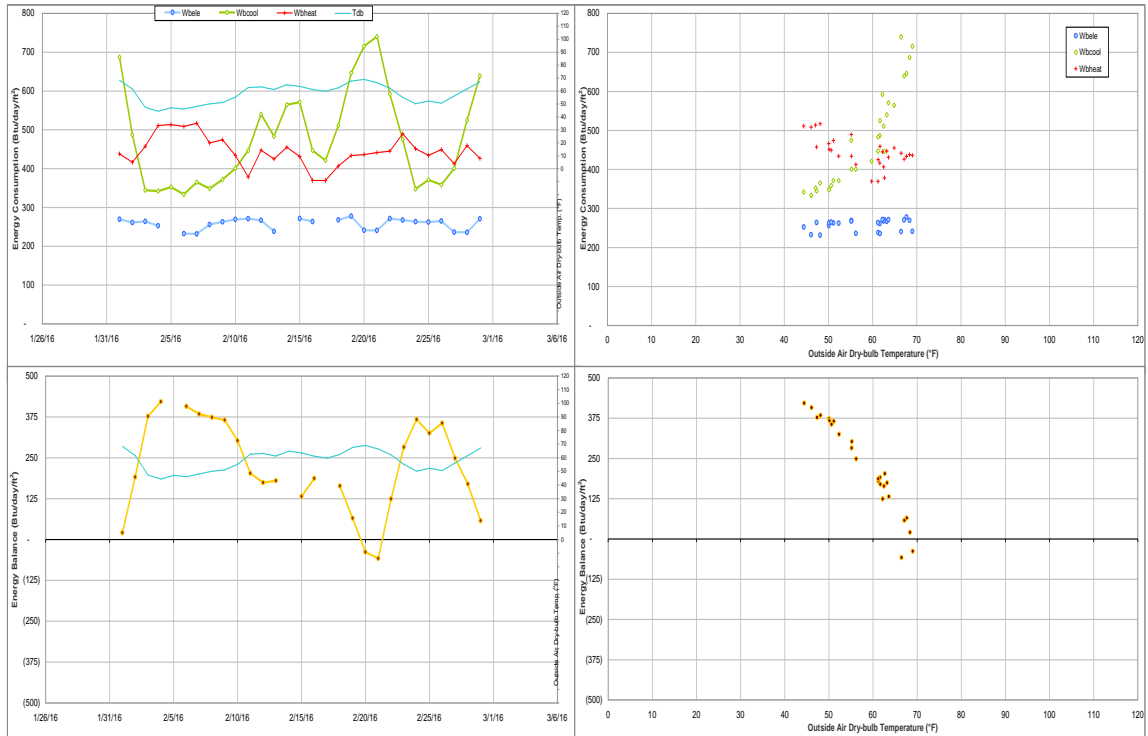


Figure IV-157 Nuclear Magnetic Resonance Facility TAMU BLDG # 1525 Energy Balance Plot during February 2016

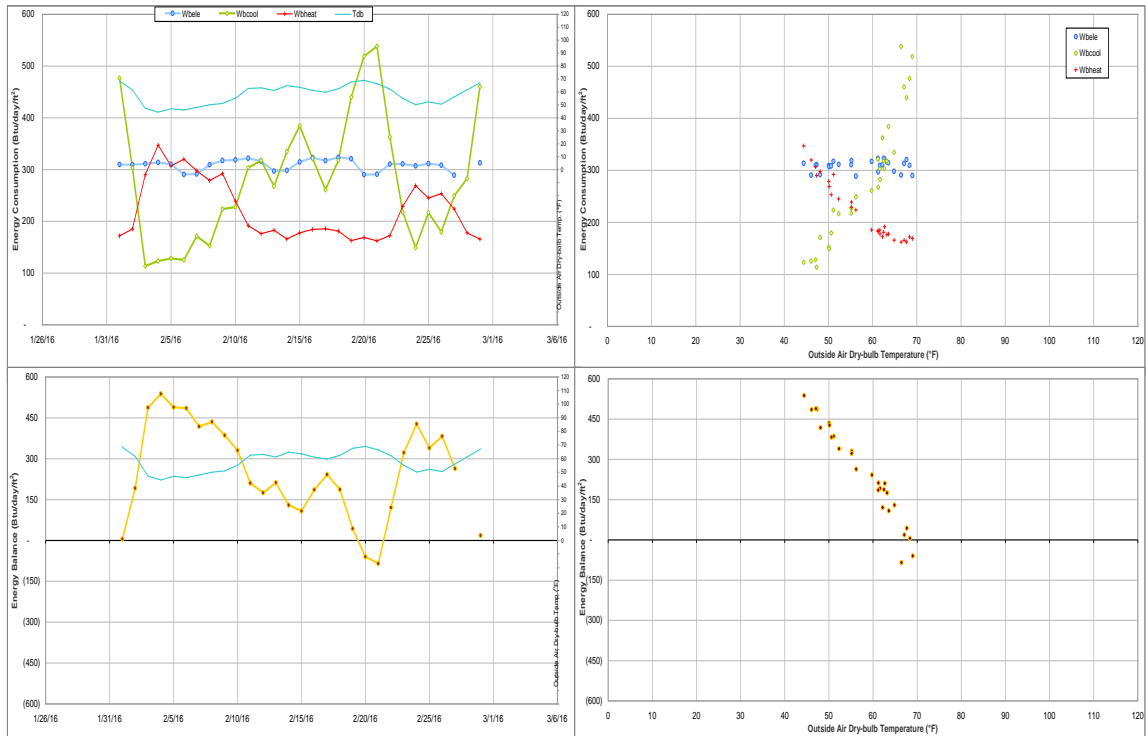


Figure IV-158 Interdisciplinary Life Sciences Building TAMU BLDG # 1530 Energy Balance Plot during February 2016

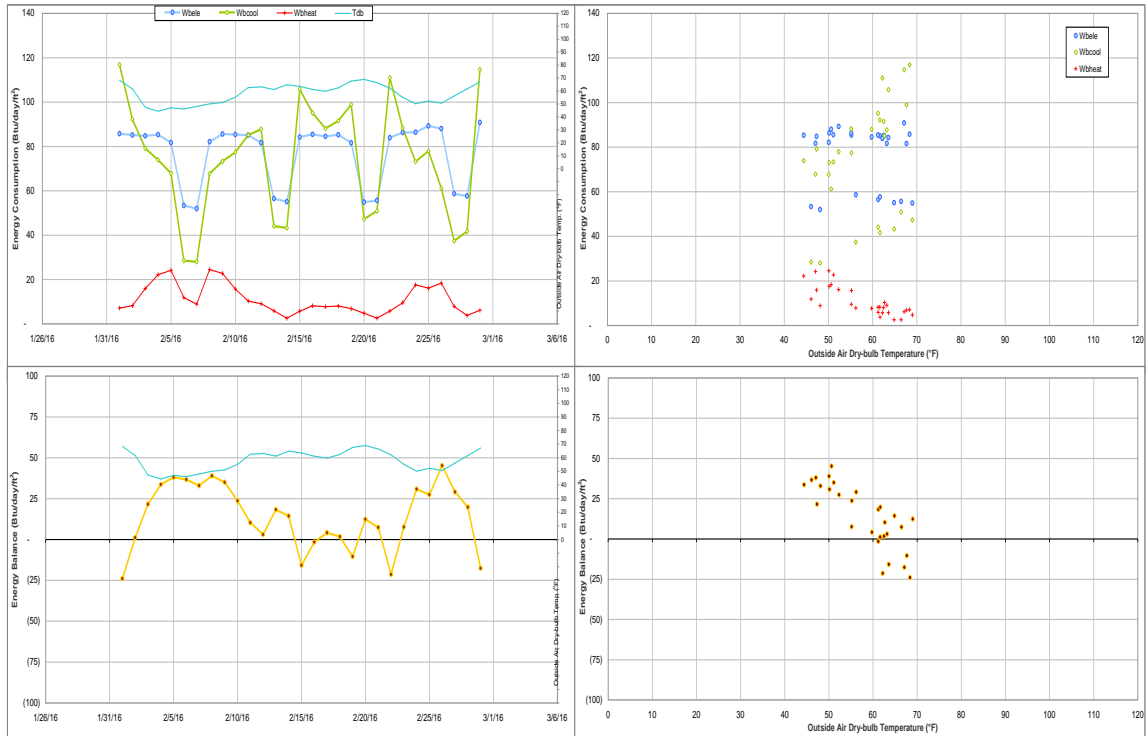


Figure IV-159 Agriculture and Life Sciences Building TAMU BLDG # 1535 Energy Balance Plot during February 2016

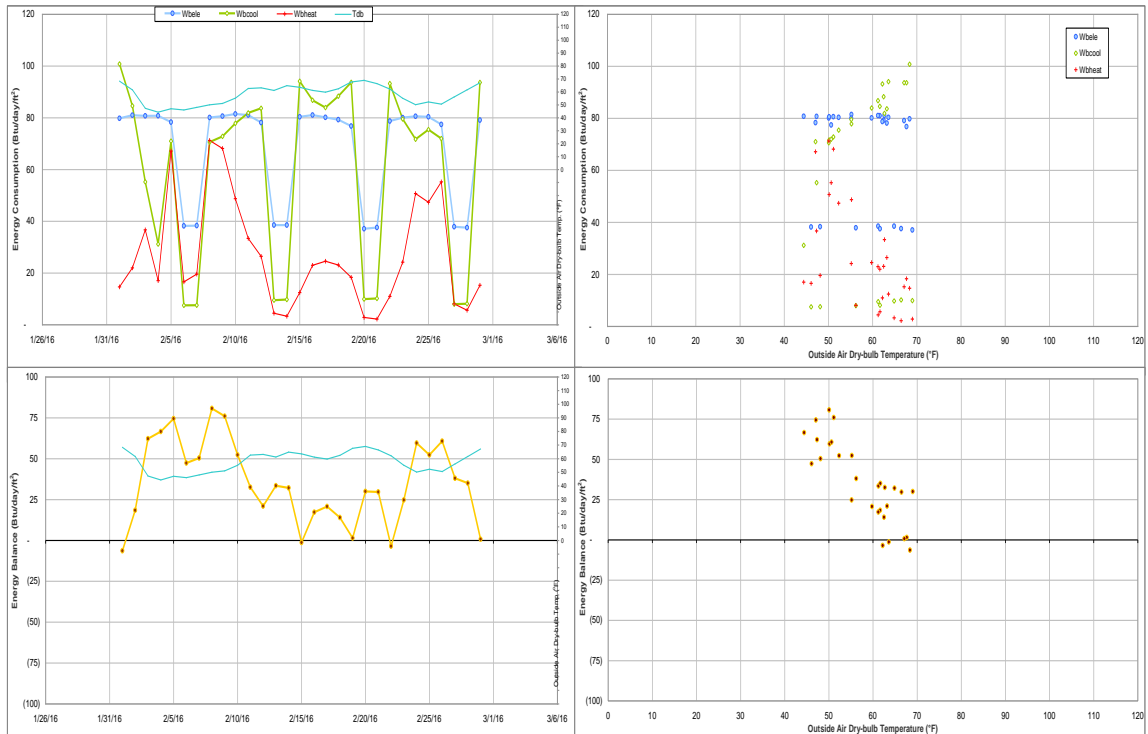


Figure IV-160 AgriLife Services Building TAMU BLDG # 1536 Energy Balance Plot during February 2016

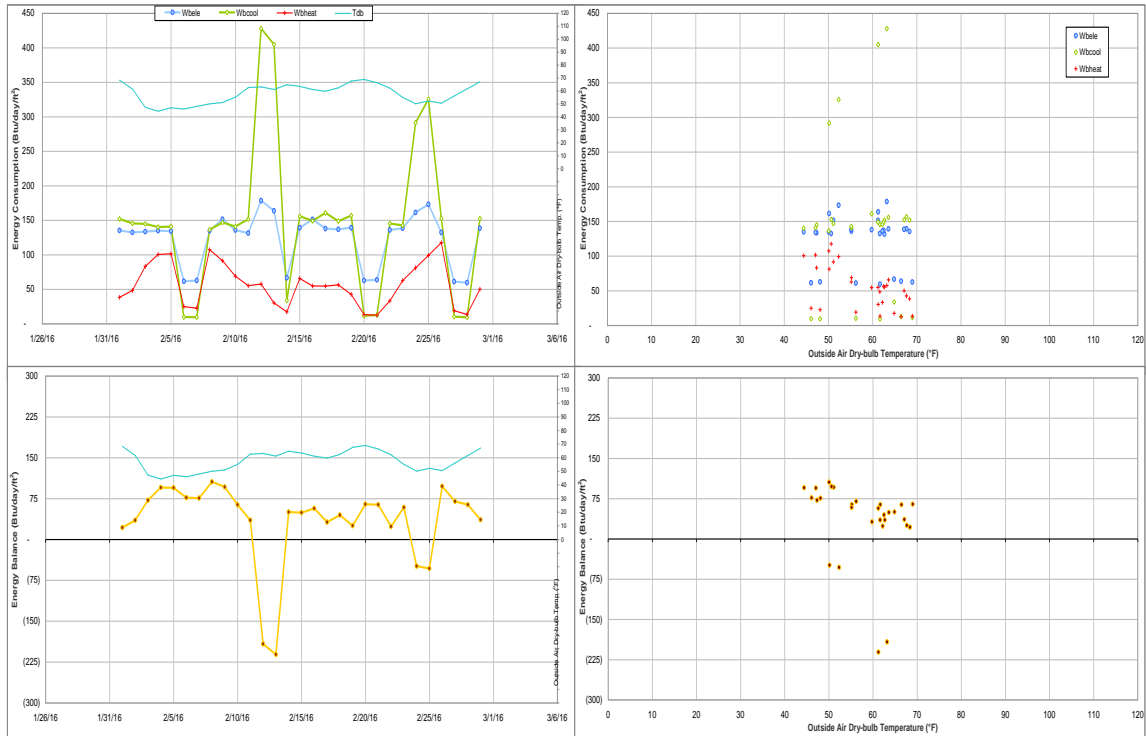


Figure IV-161 Agriculture Program Visitors Center TAMU BLDG # 1538 Energy Balance Plot during February 2016

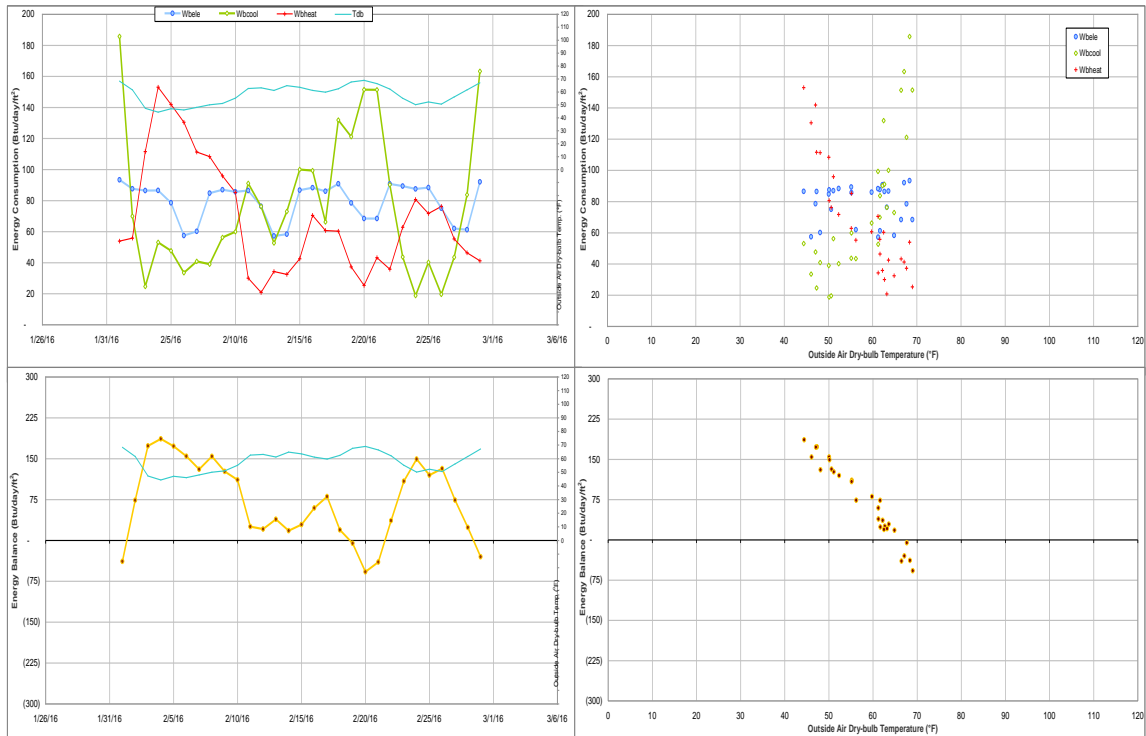


Figure IV-162 Physical Education Activity Program Building TAMU BLDG # 1540 Energy Balance Plot during February 2016

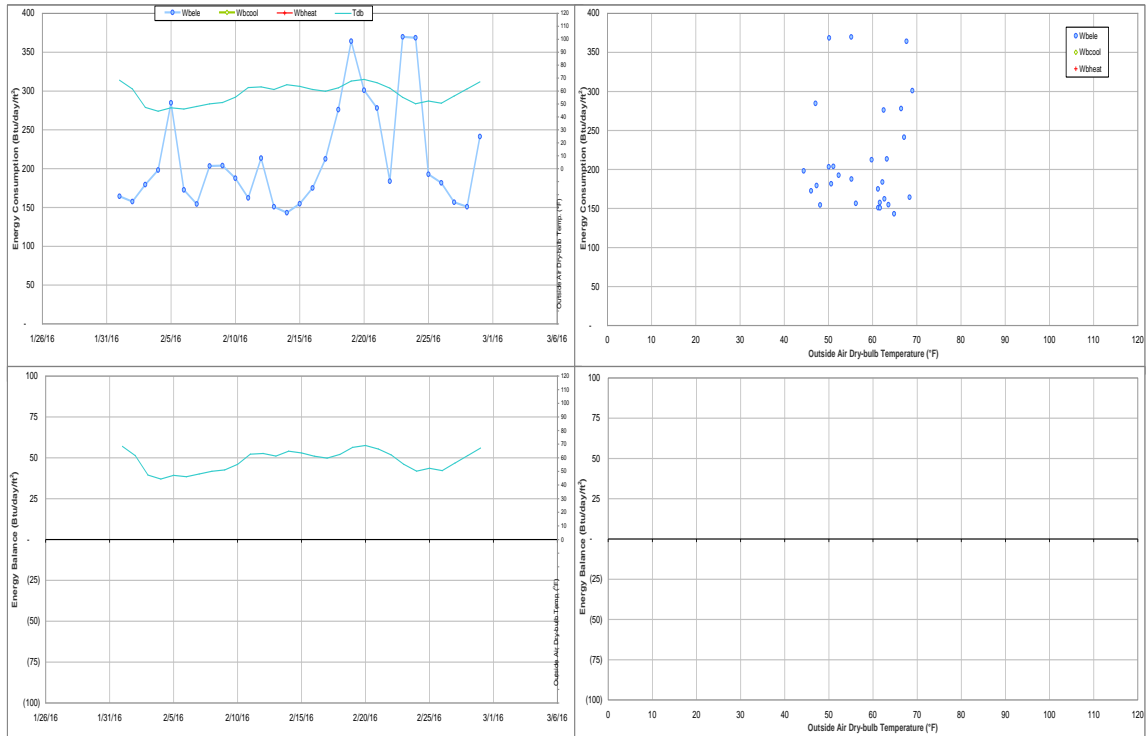


Figure IV-163 Olsen Field at Bluebell Park TAMU BLDG # 1550 Energy Balance Plot during February 2016

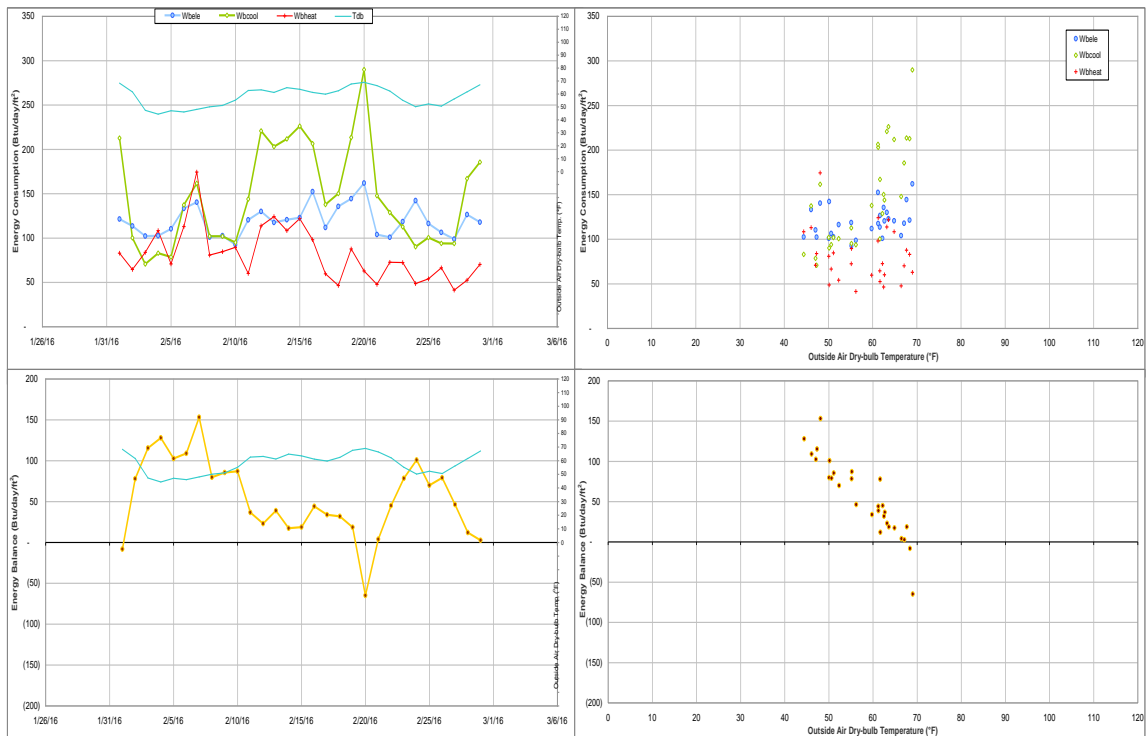


Figure IV-164 Reed Arena and Cox-McFerrin Center TAMU BLDG # 1554-1558 Energy Balance Plot during February 2016

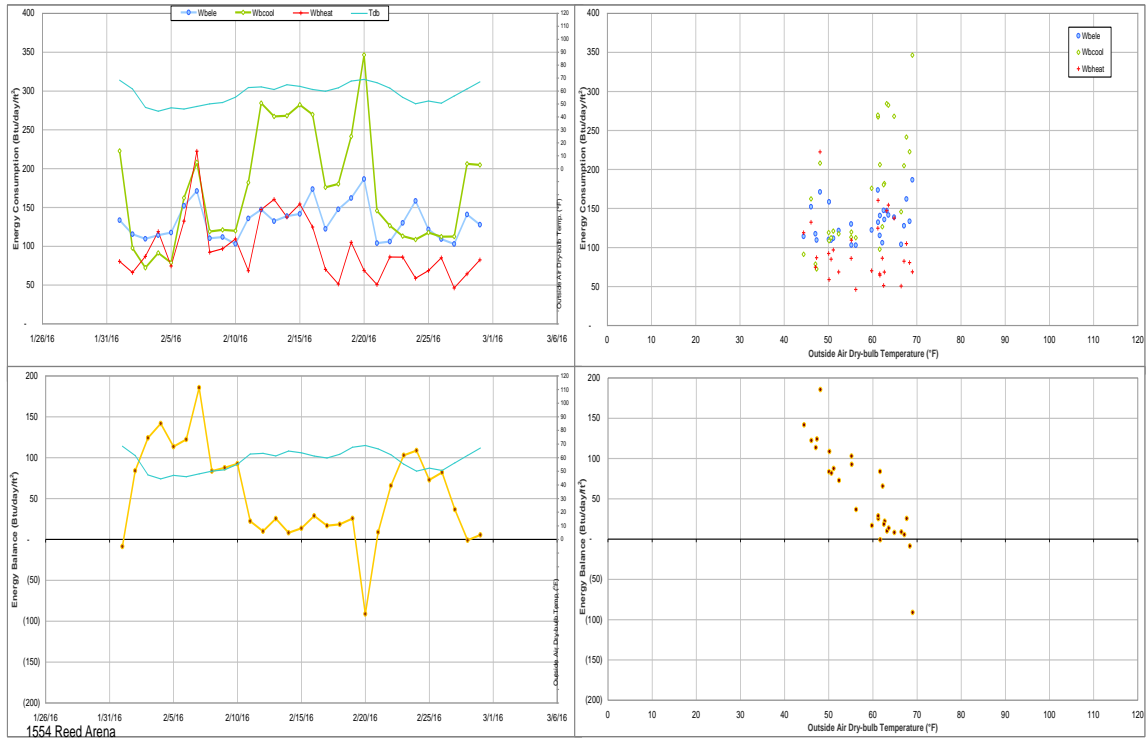


Figure IV-165 Reed Arena TAMU BLDG # 1554 Energy Balance Plot during February 2016

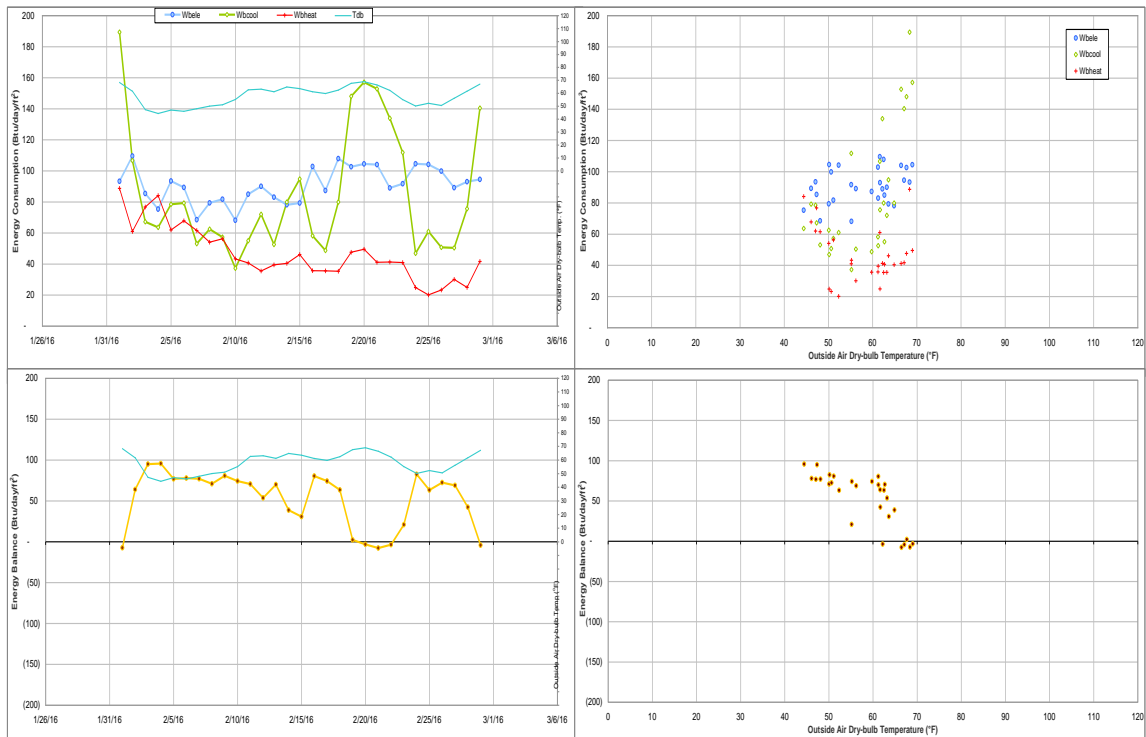


Figure IV-166 Cox-McFerrin Center for Aggie Basketball TAMU BLDG # 1558 Energy Balance Plot during February 2016

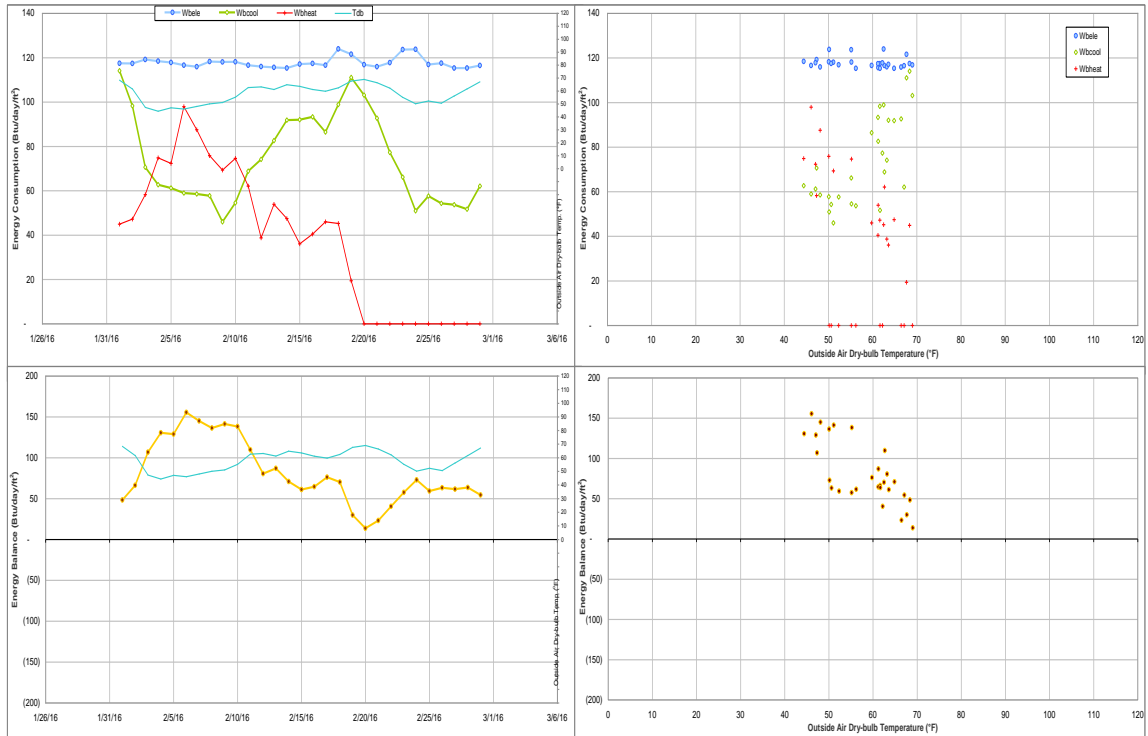


Figure IV-167 West Campus Parking Garage TAMU BLDG # 1559 Energy Balance Plot during February 2016

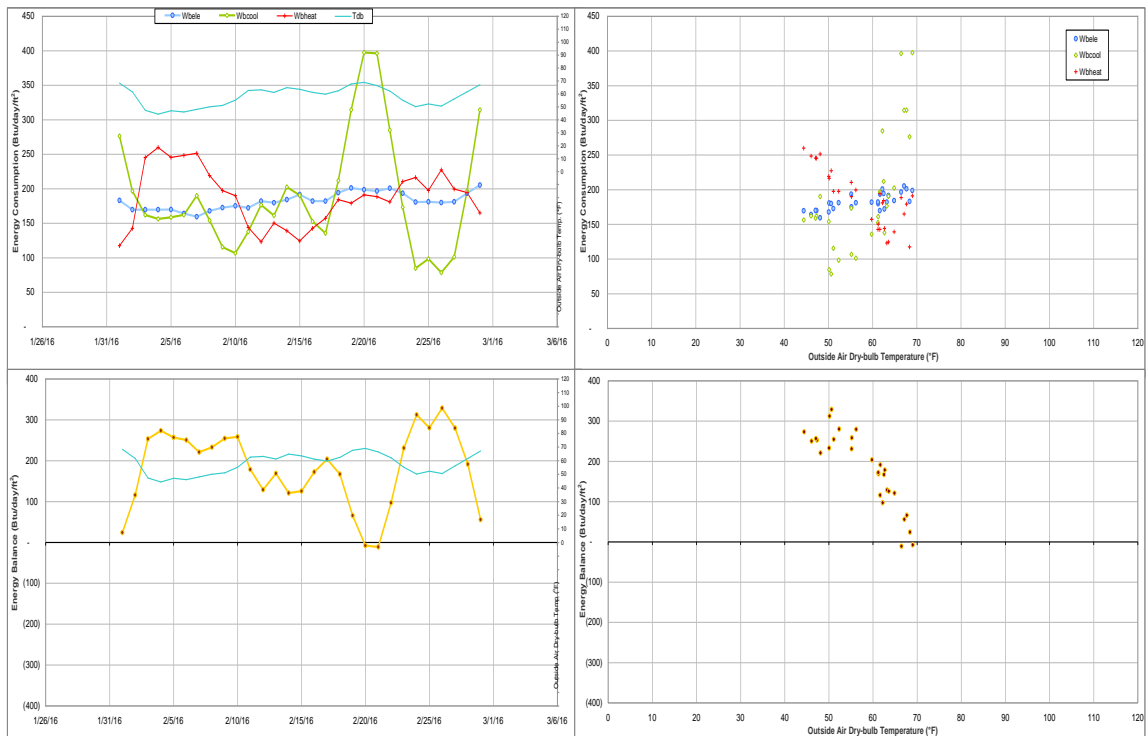


Figure IV-168 Student Recreation Center TAMU BLDG # 1560 Energy Balance Plot during February 2016

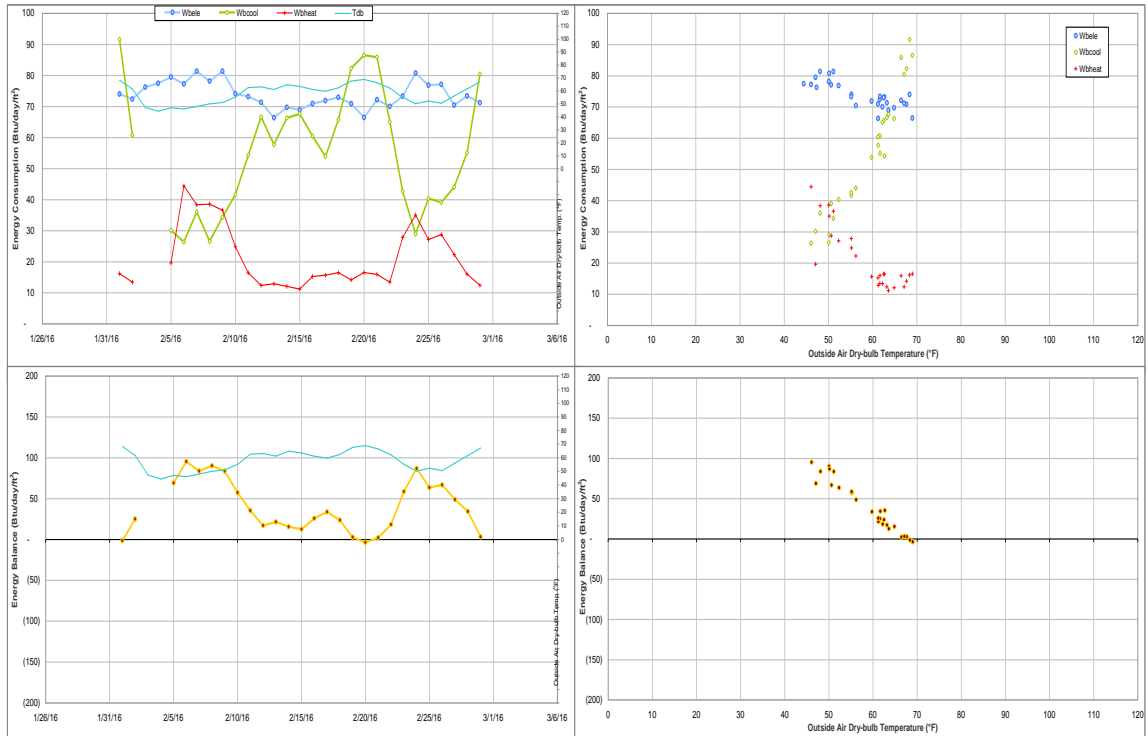


Figure IV-169 White Creek Apartment 1 TAMU BLDG # 1590 Energy Balance Plot during February 2016

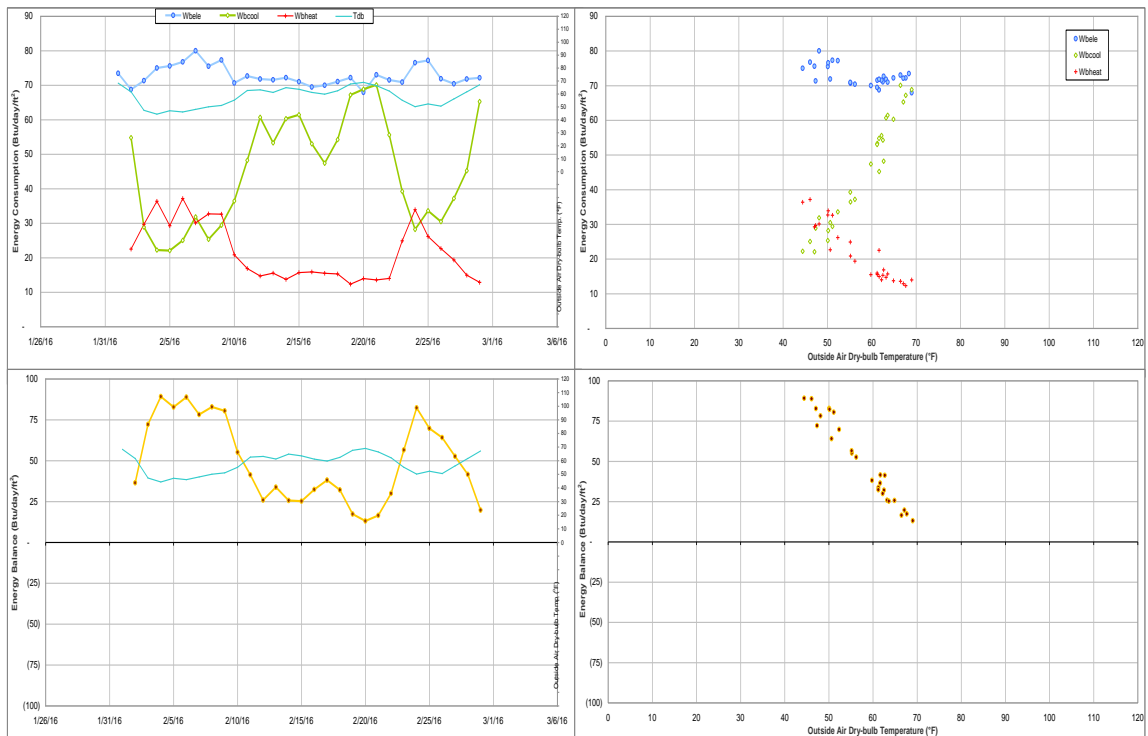


Figure IV-170 White Creek Apartment 2 TAMU BLDG # 1591 Energy Balance Plot during February 2016

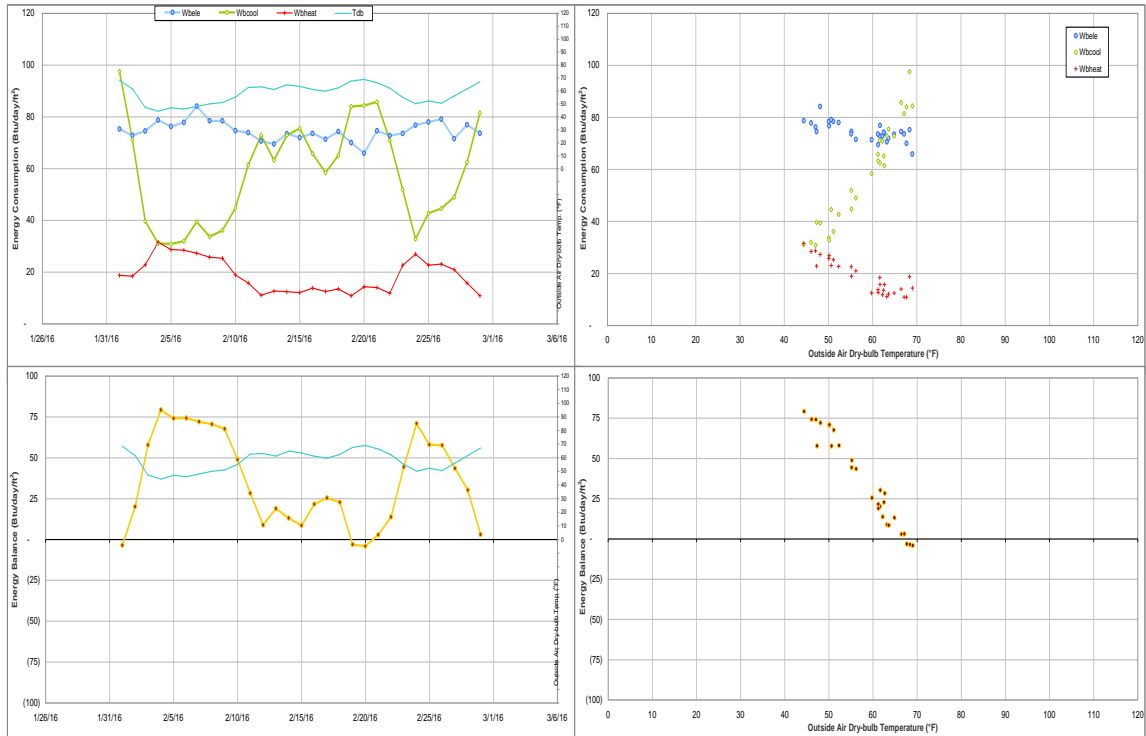


Figure IV-171 White Creek Apartment 3 TAMU BLDG # 1592 Energy Balance Plot during February 2016

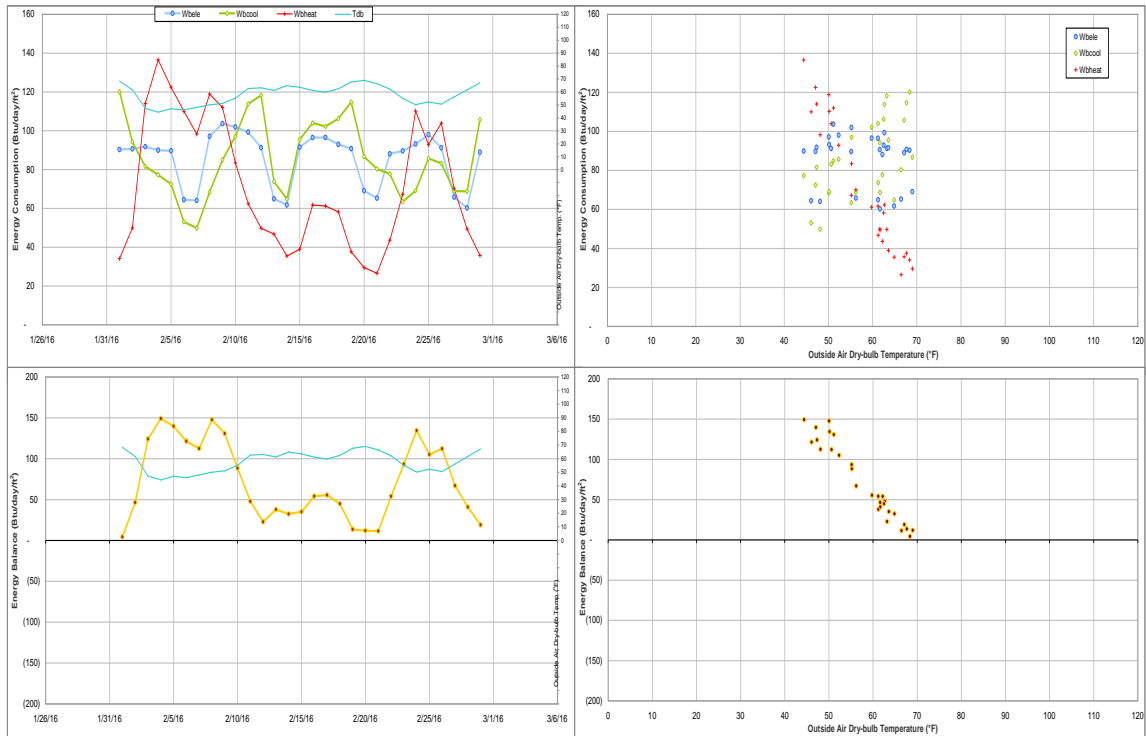


Figure IV-172 Gilchrist TTI Building TAMU BLDG # 1600 Energy Balance Plot during February 2016

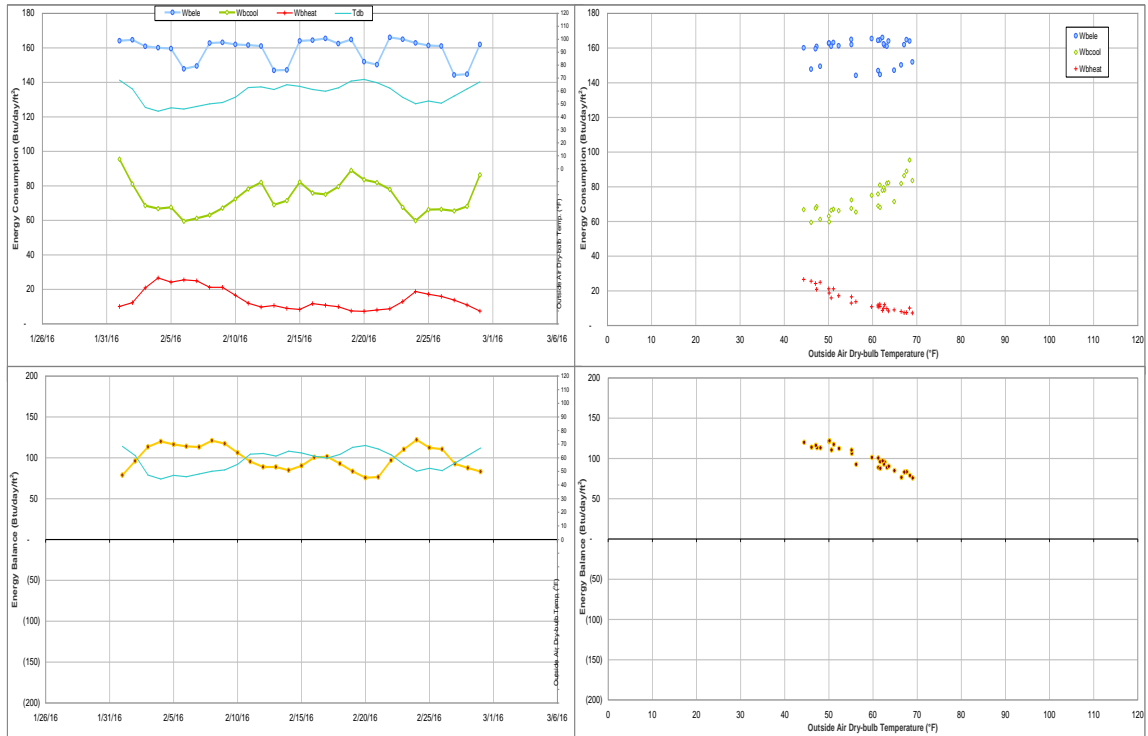


Figure IV-173 International Ocean Discovery Building TAMU BLDG # 1601 Energy Balance Plot during February 2016

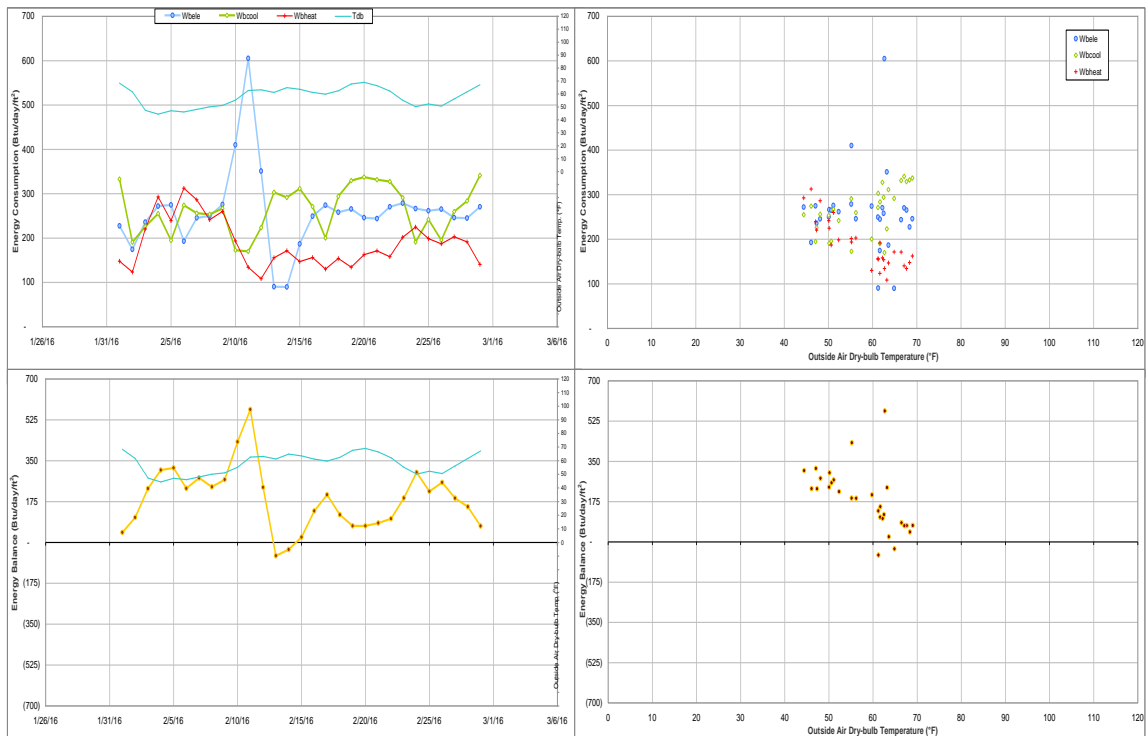


Figure IV-174 Offshore Technology Research Center TAMU BLDG # 1604 Energy Balance Plot during February 2016

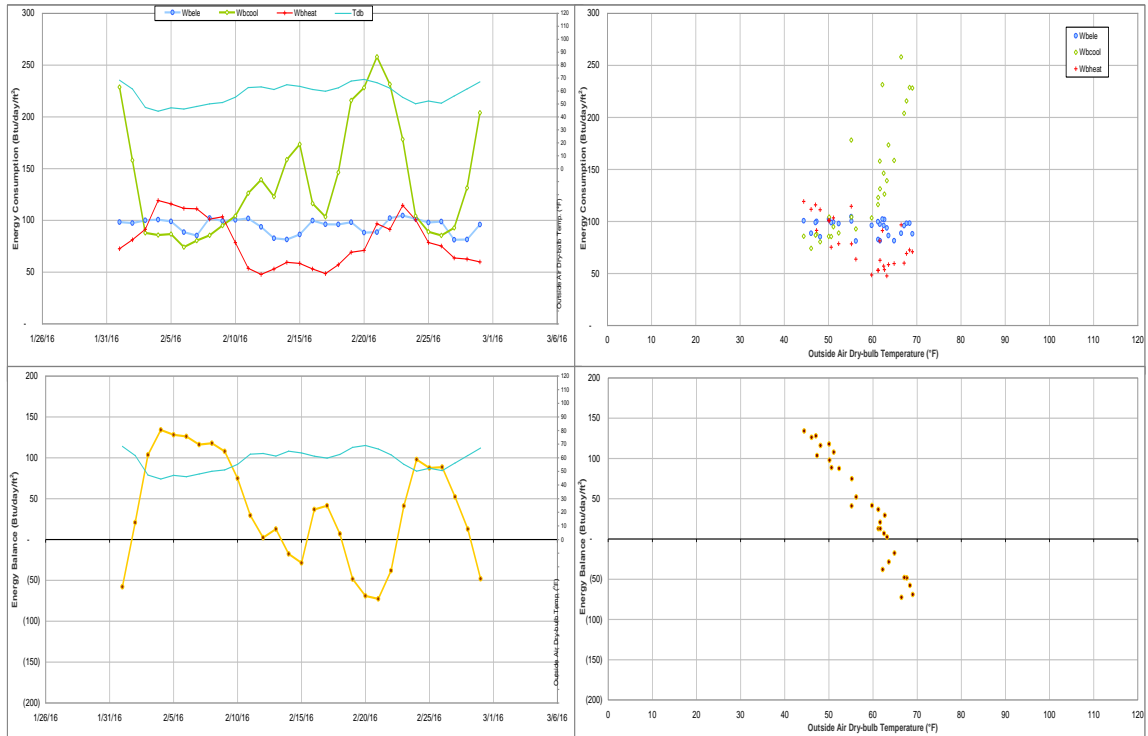


Figure IV-175 George Bush Presidential Library & Museum TAMU BLDG # 1606 Energy Balance Plot during February 2016

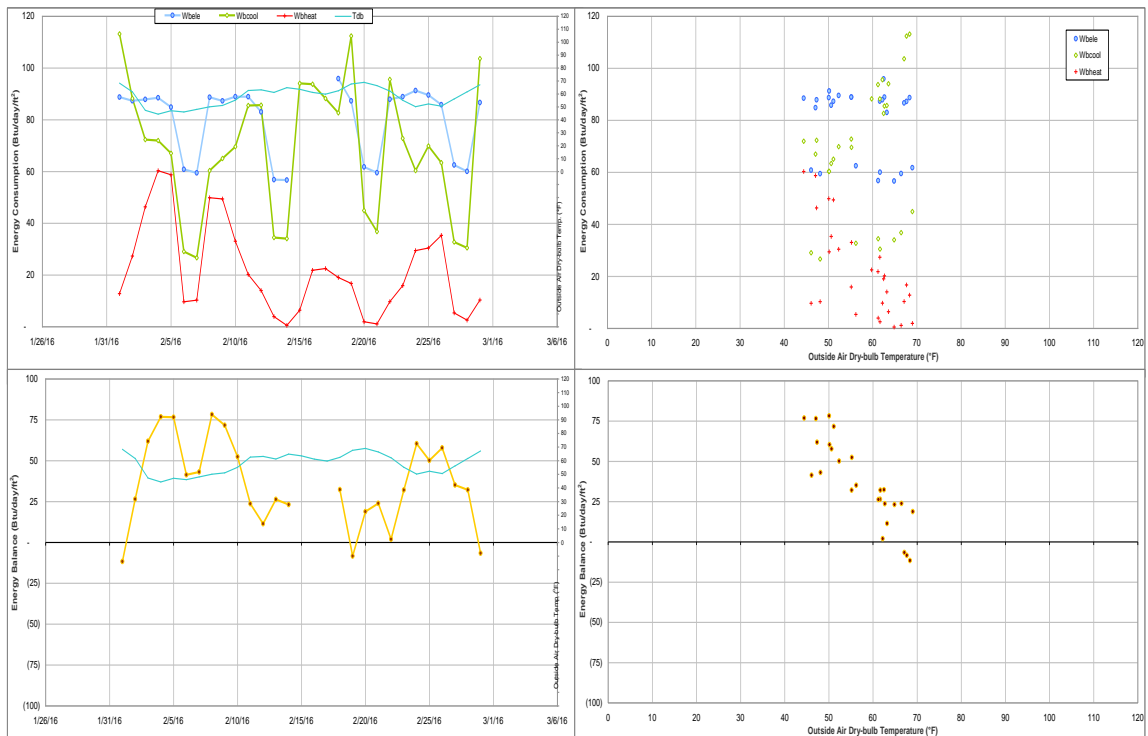


Figure IV-176 Allen Building TAMU BLDG # 1607 Energy Balance Plot during February 2016

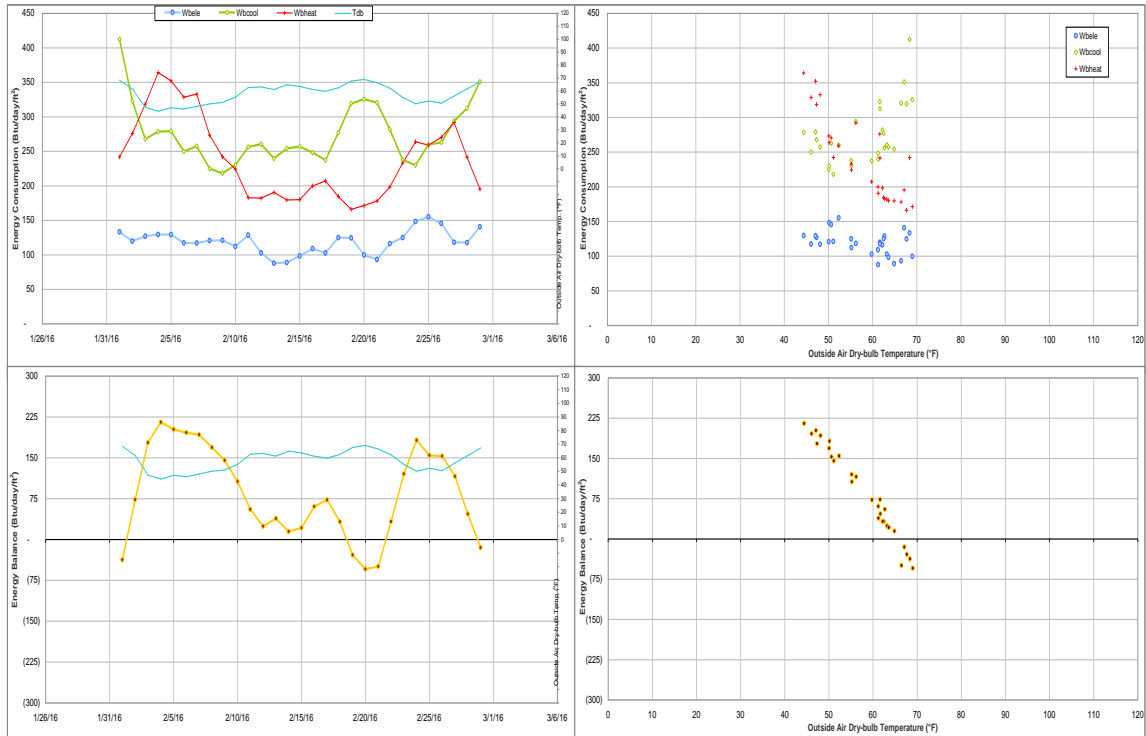


Figure IV-177 Annenberg Presidential Conference Center TAMU BLDG # 1608 Energy Balance Plot during February 2016

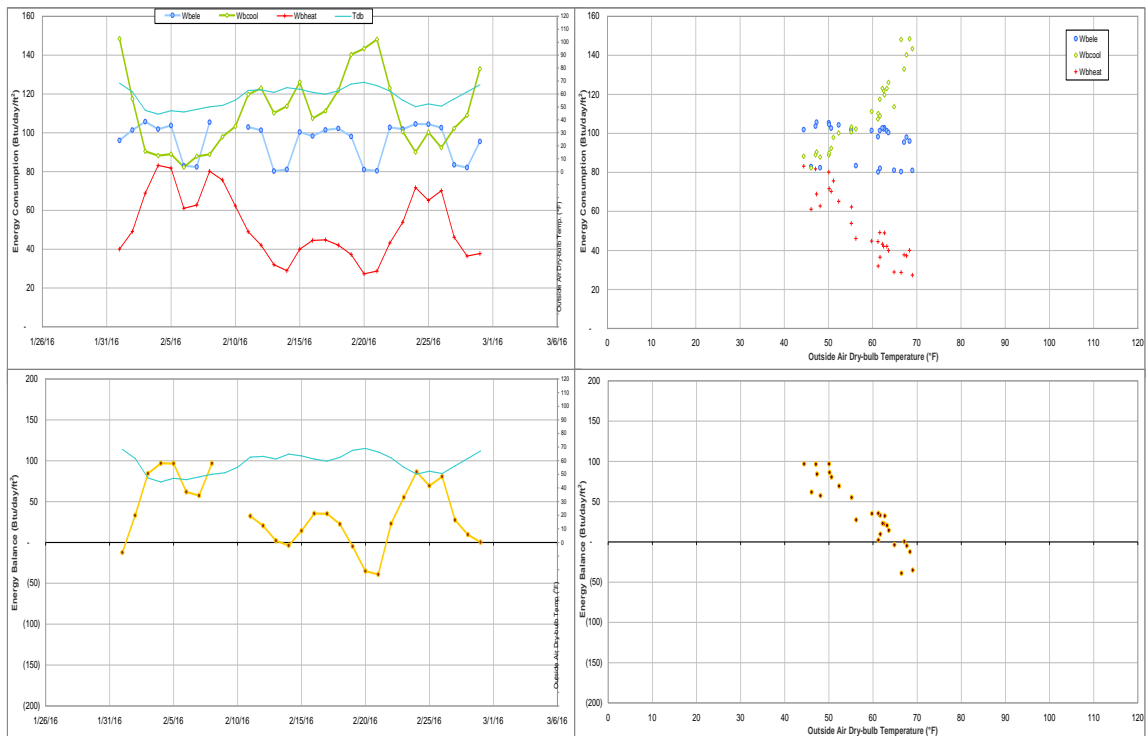


Figure IV-178 TTI Headquarters TAMU BLDG # 1609 Energy Balance Plot during February 2016

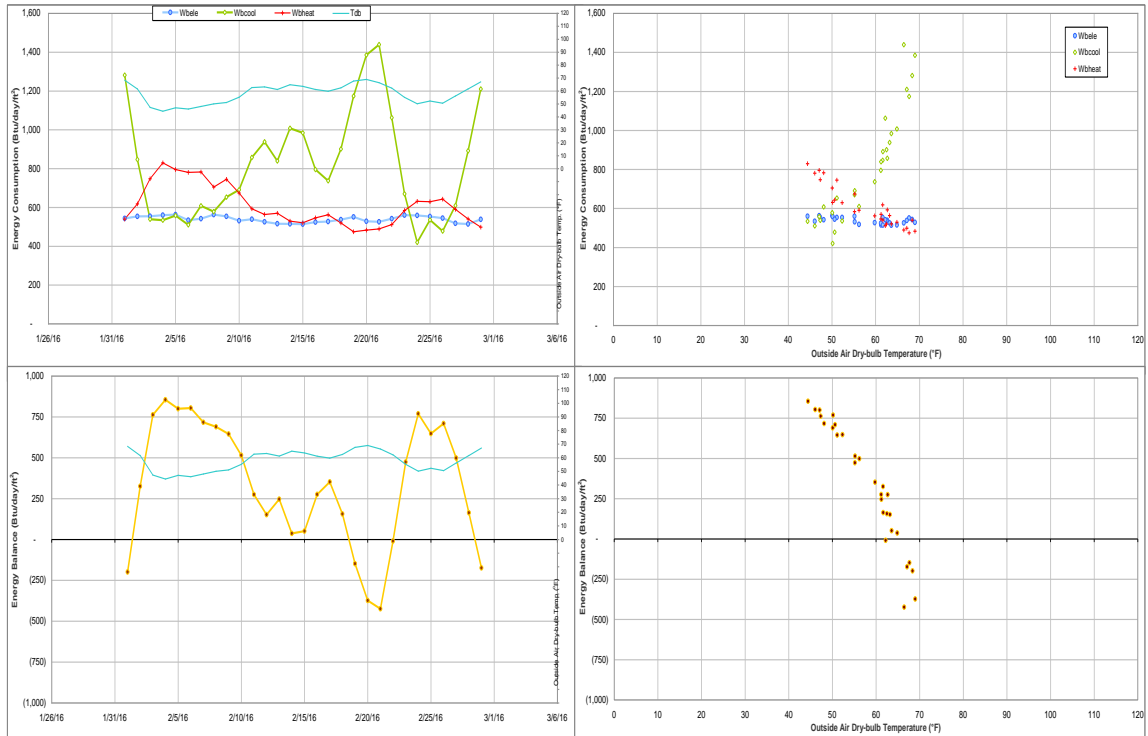


Figure IV-179 Engineering Research Building TAMU BLDG # 1611 Energy Balance Plot during February 2016

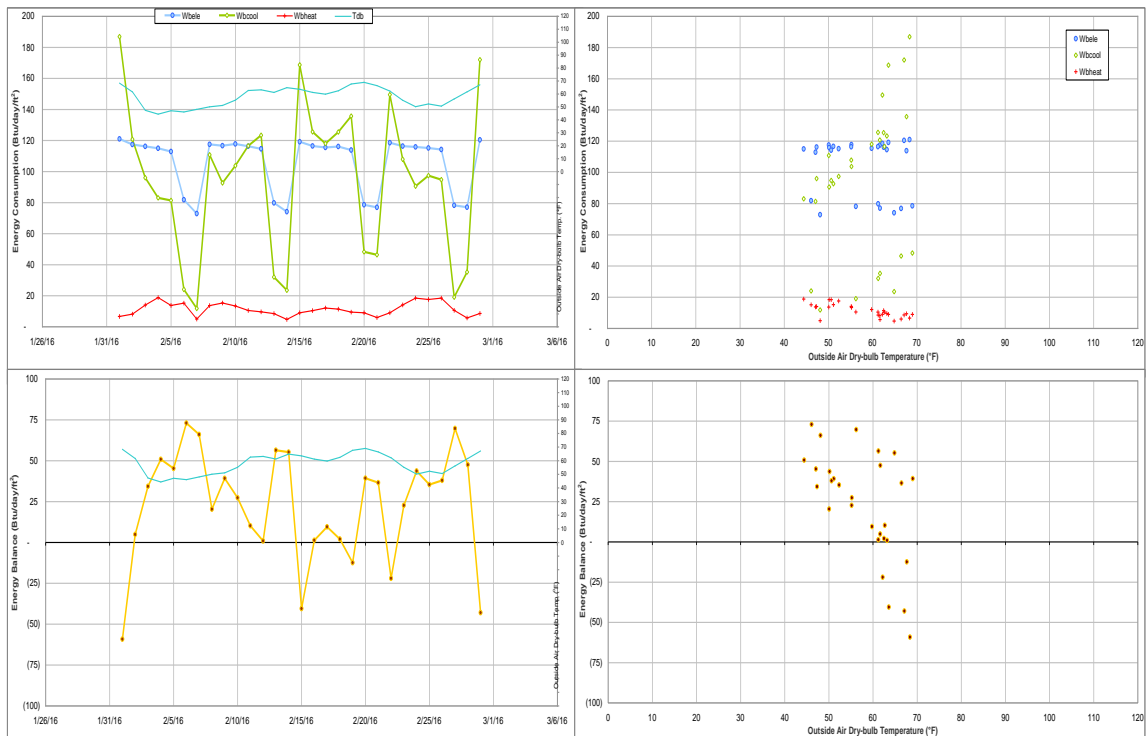


Figure IV-180 General Services Complex TAMU BLDG # 1800 Energy Balance Plot during February 2016

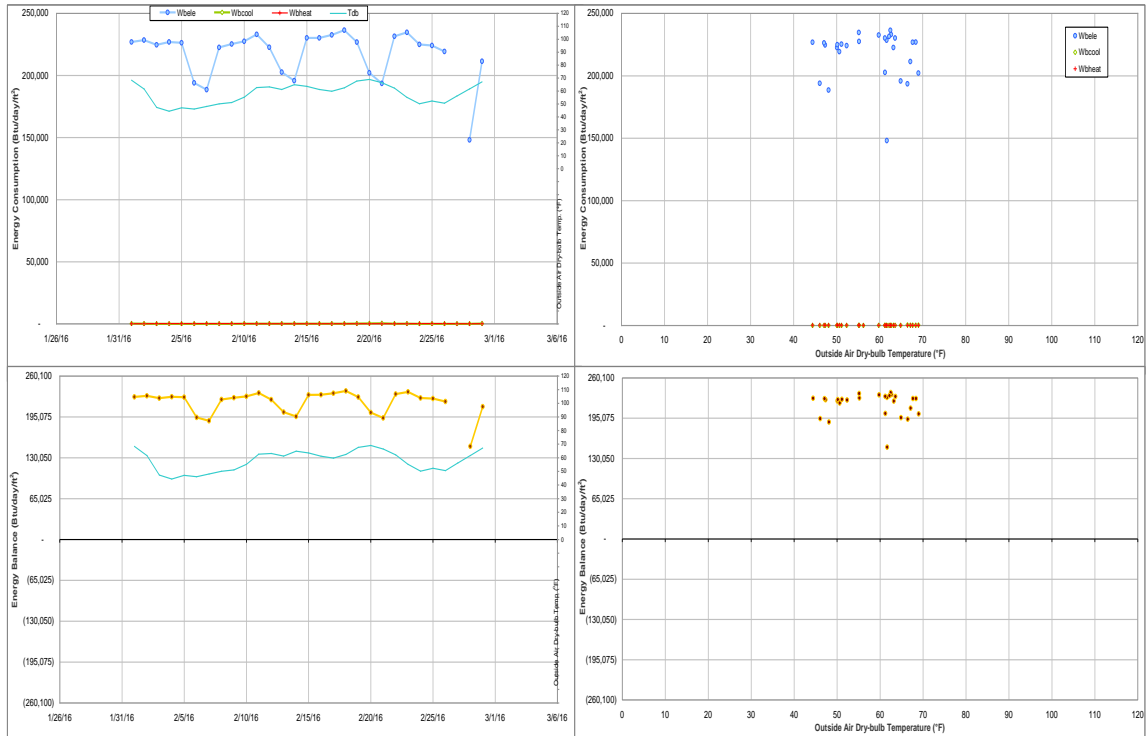


Figure IV-181 Office of the State Chemist Building TAMU BLDG # 1810 Energy Balance Plot during February 2016

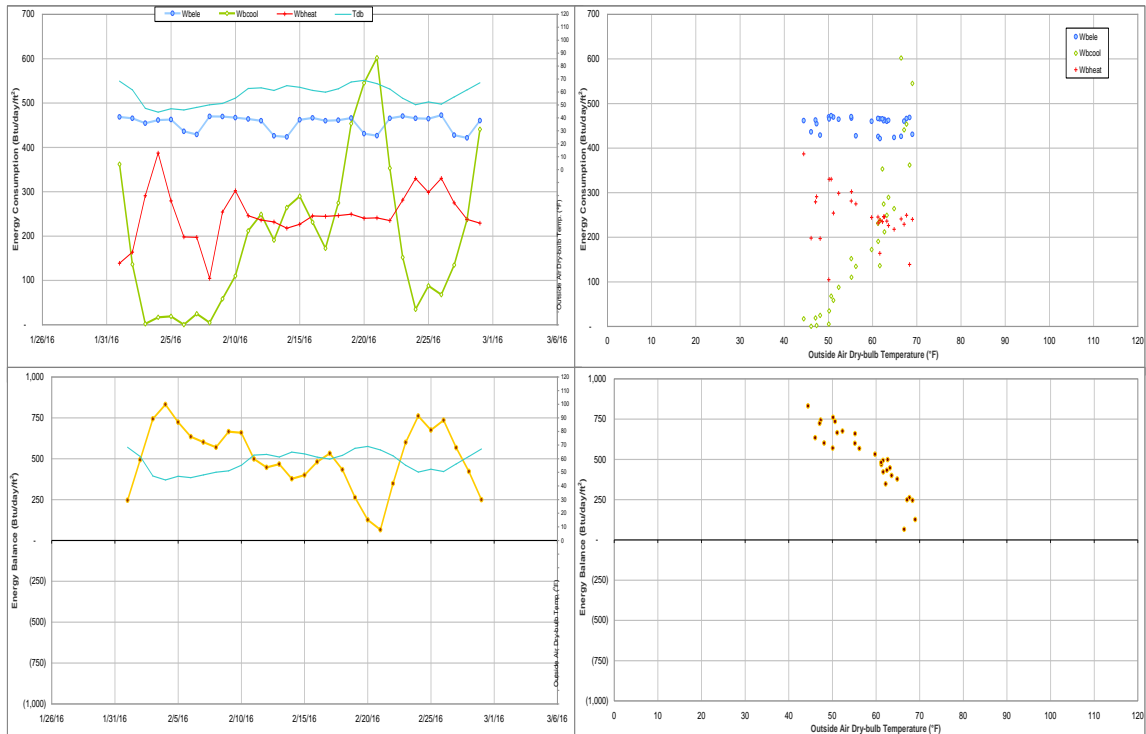


Figure IV-182 Vet Med Research Bldg Addition TAMU BLDG # 1811 Energy Balance Plot during February 2016

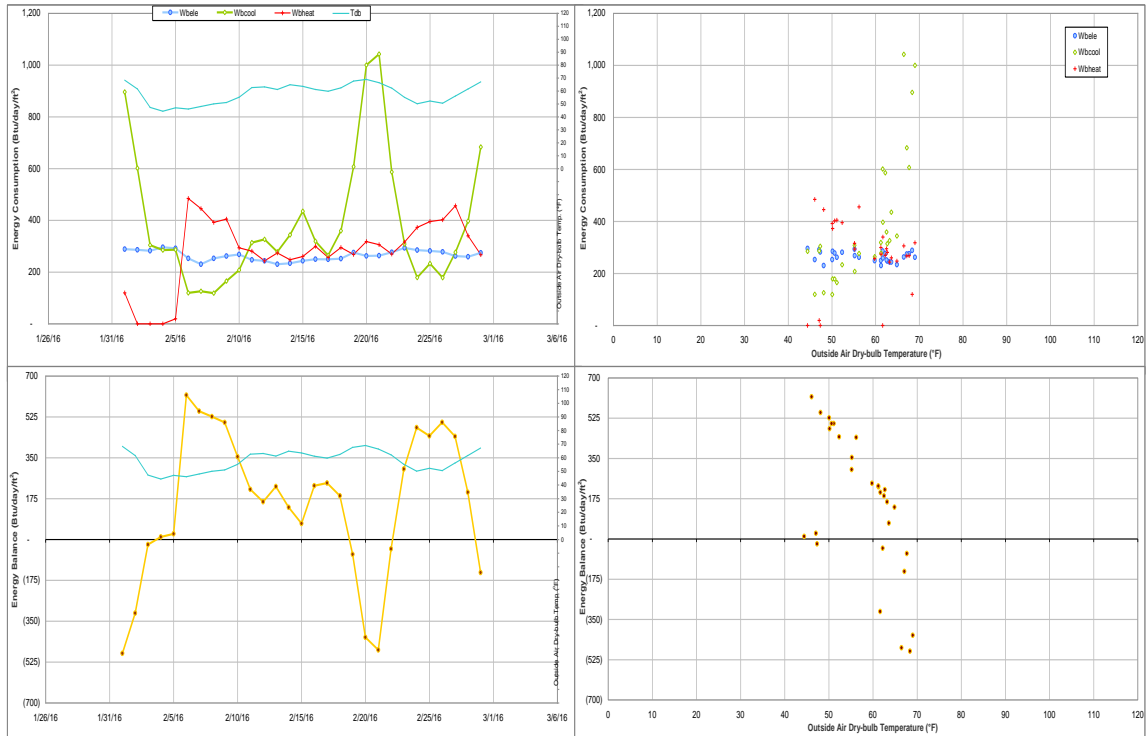


Figure IV-183 Texas Institute for Genomic Medicine TAMU BLDG # 1900 Energy Balance Plot during February 2016

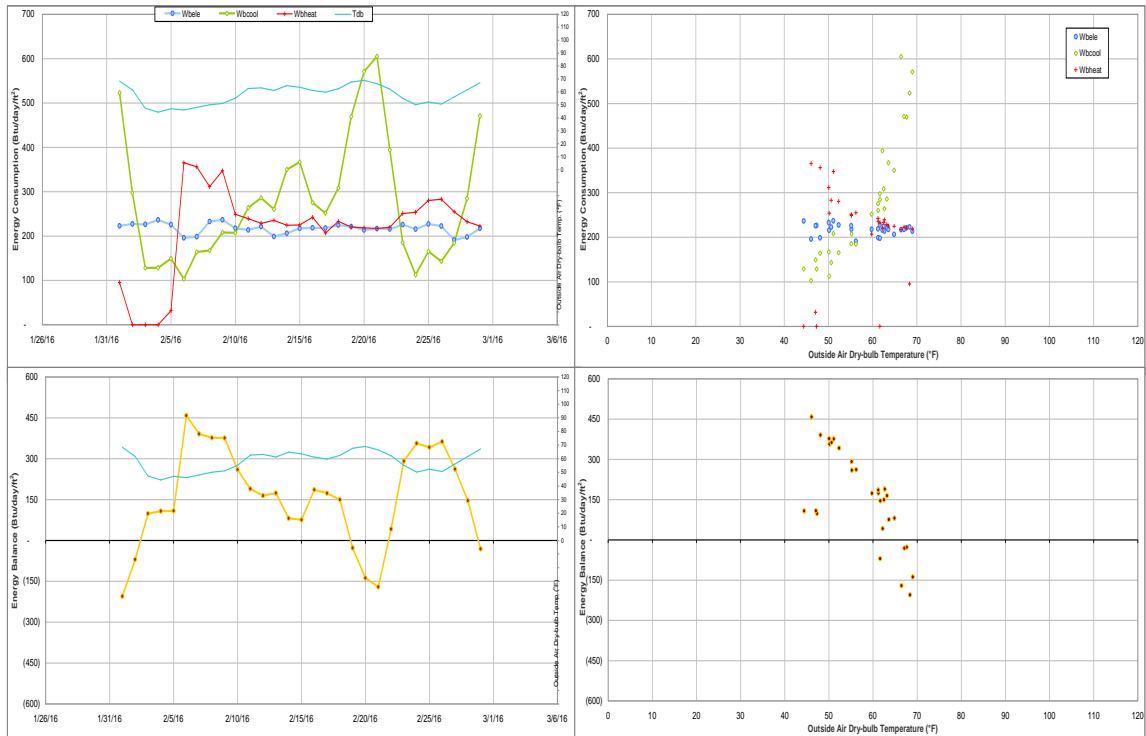


Figure IV-184 Texas A&M Institute for Preclinical Studies A TAMU BLDG # 1904 Energy Balance Plot during February 2016

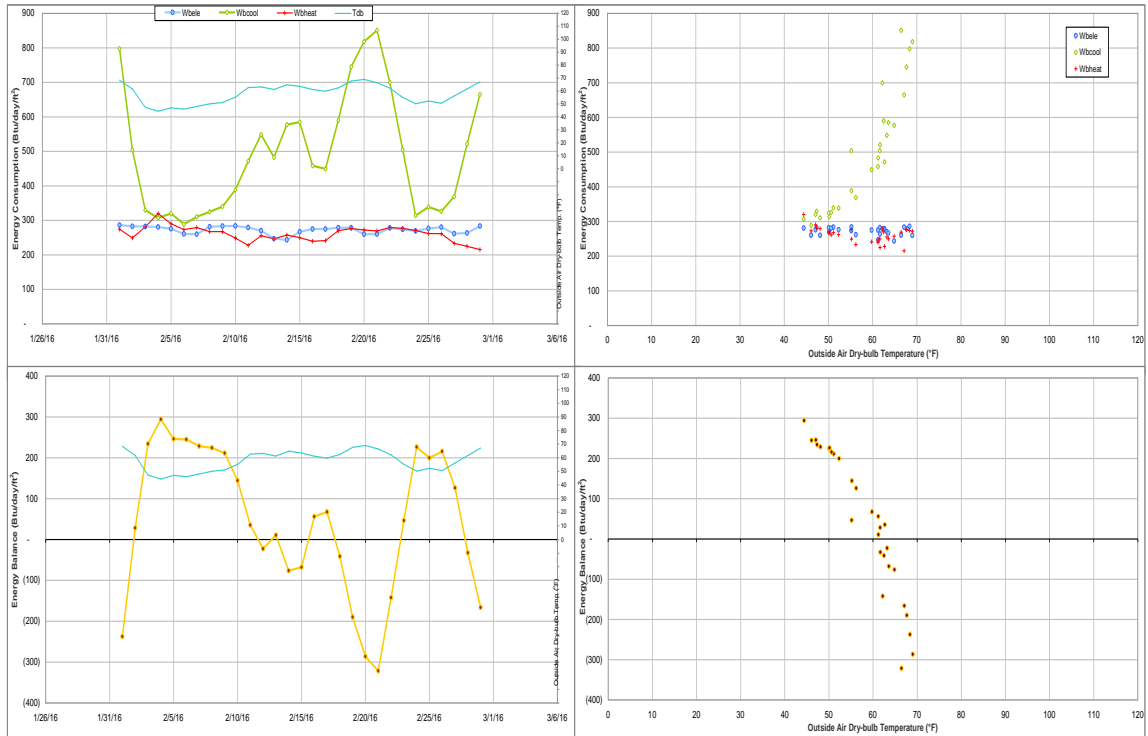


Figure IV-185 National Center for Therapeutics Manufacturing TAMU BLDG # 1910 Energy Balance Plot during February 2016

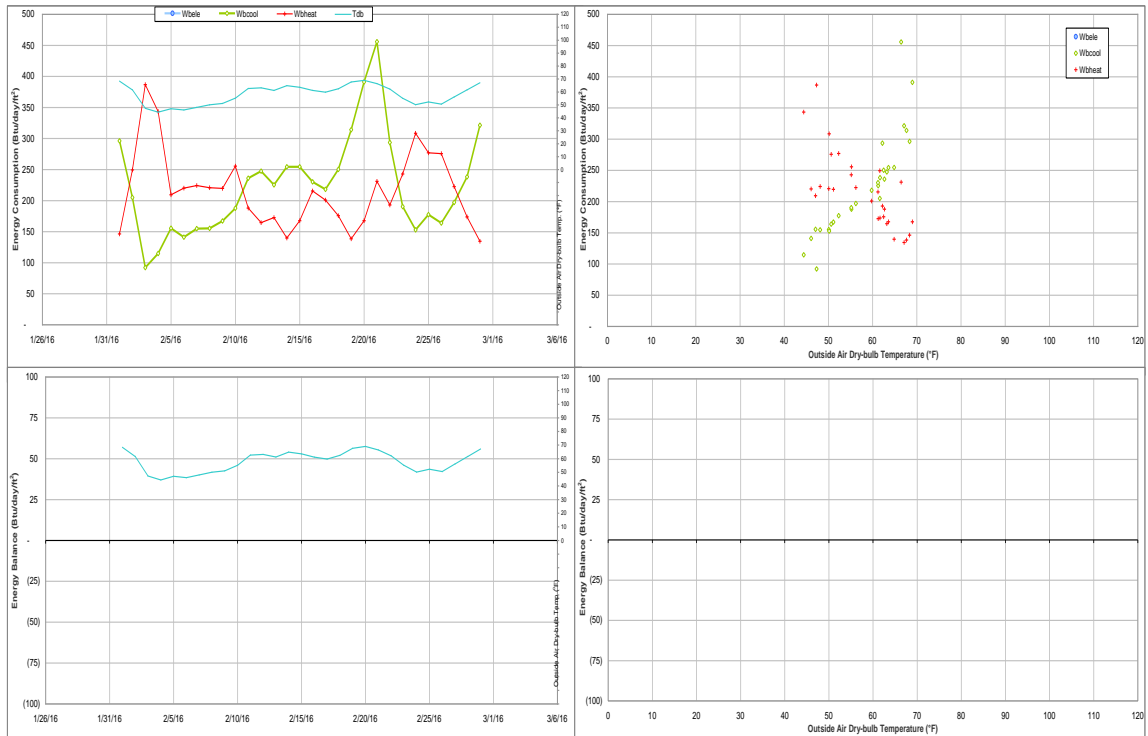


Figure IV-186 Multi-Species Research Building TAMU BLDG # 1911 Energy Balance Plot during February 2016

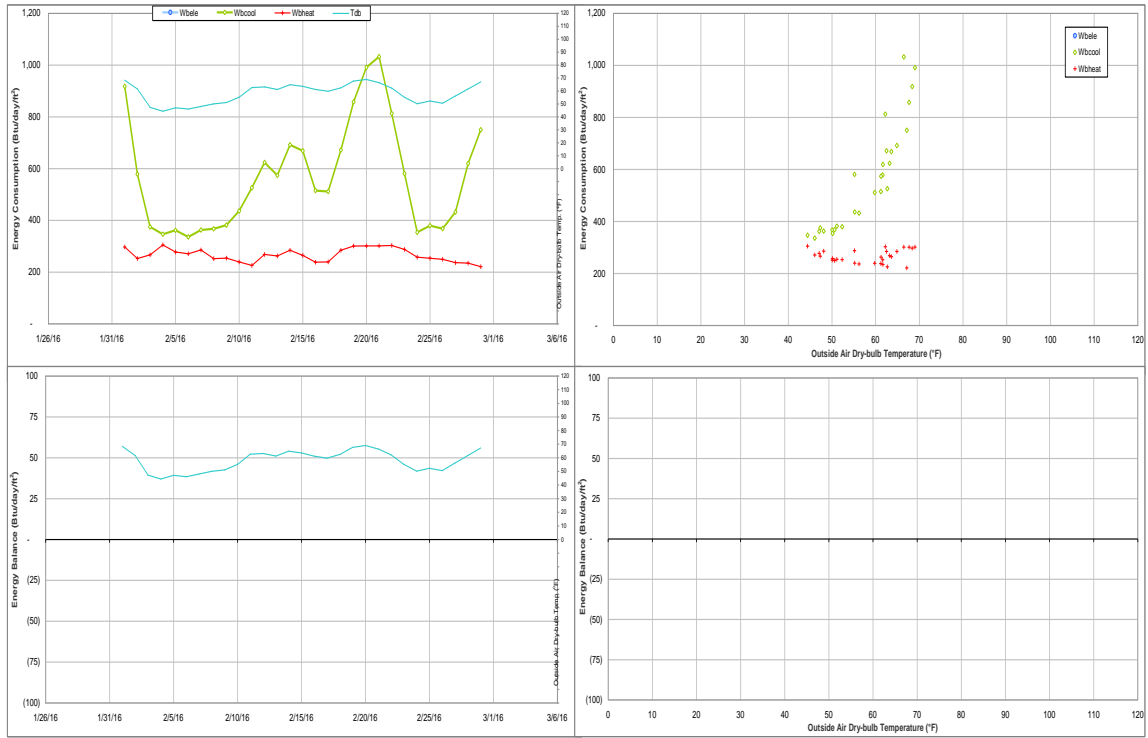


Figure IV-187 NCTM Manufacturing Building TAMU BLDG # 10226 Energy Balance Plot during February 2016

**V. Energy Balance Plots with filled-in data for
February 2016 Consumption**

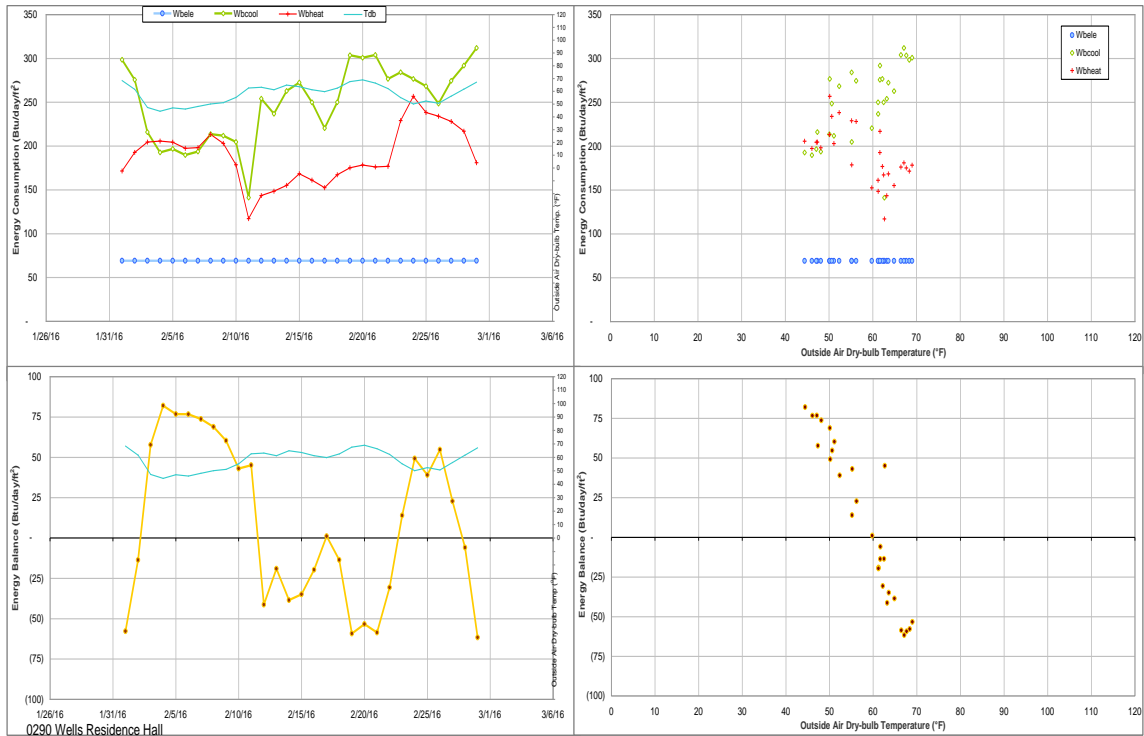


Figure V-1 Wells Residence Hall TAMU BLDG # 290 Energy Balance Plot during February 2016

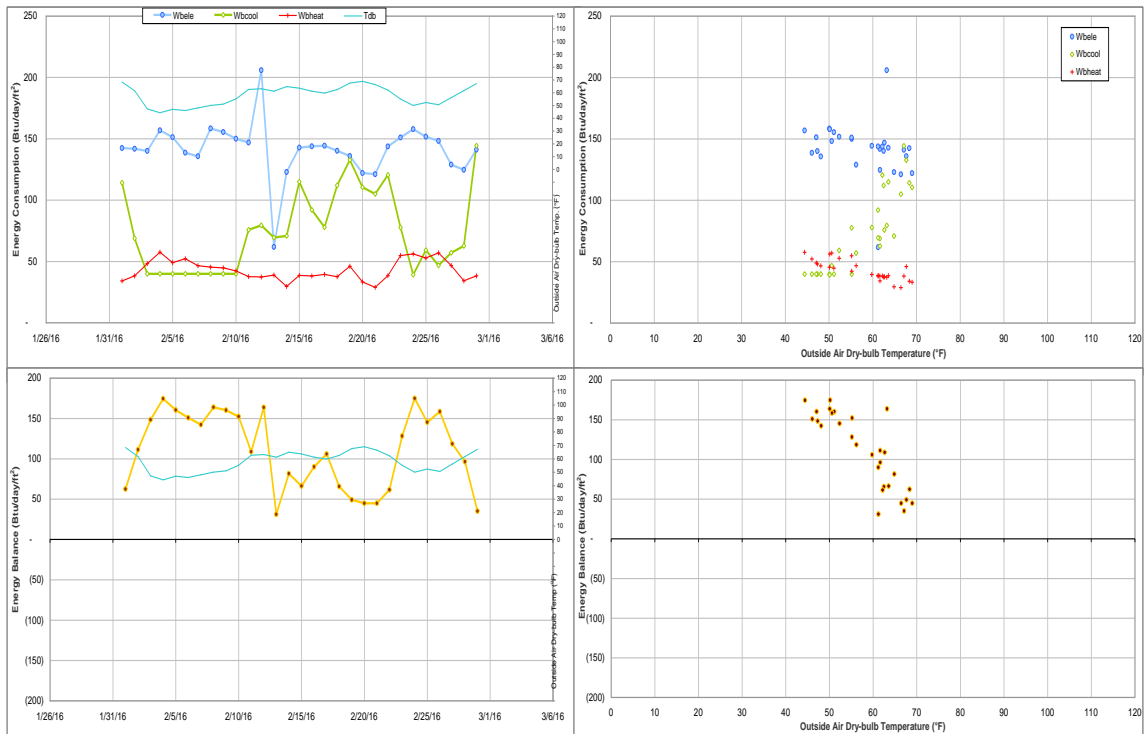


Figure V-2 Mitchell Inst. for Fundamental Phys & Astronomy TAMU BLDG # 296 Energy Balance Plot during February 2016

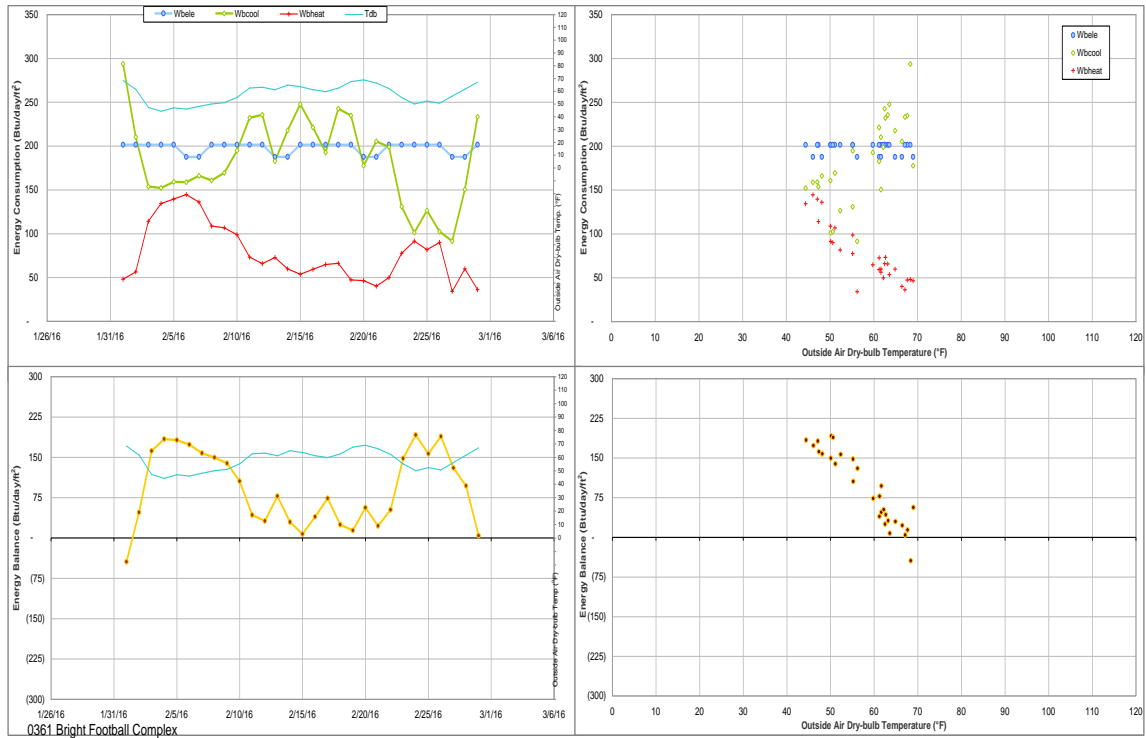


Figure V-3 Bright Football Complex TAMU BLDG # 361 Energy Balance Plot during February 2016

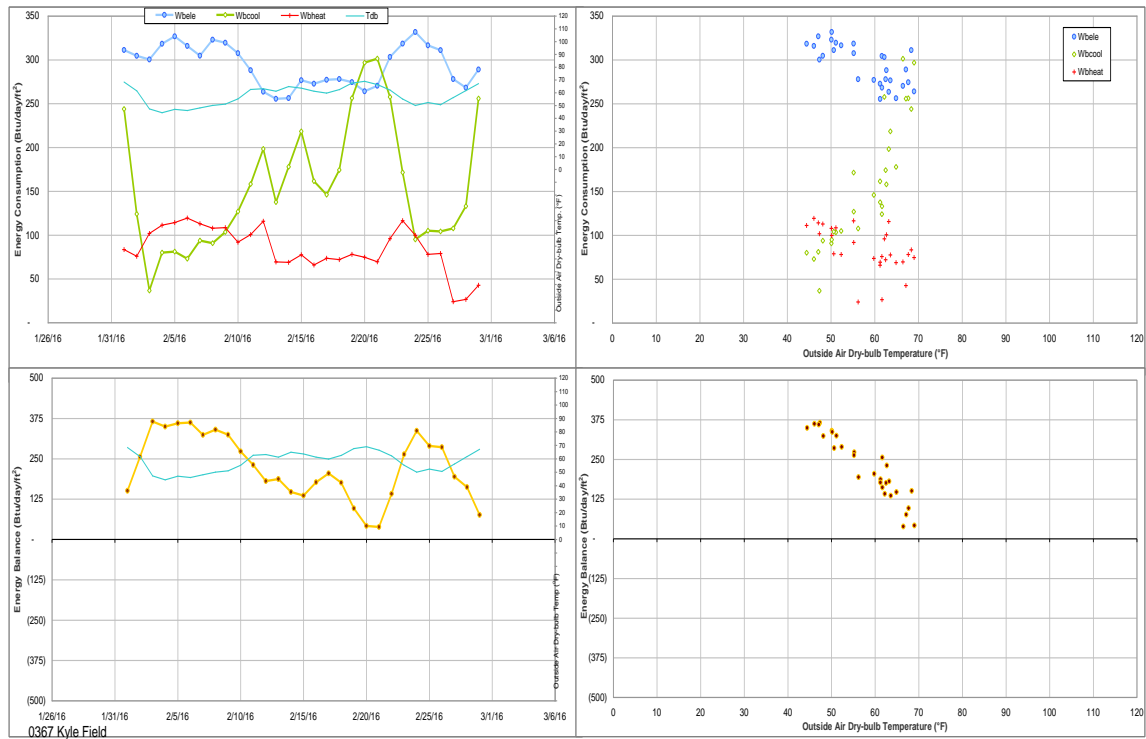


Figure V-4 Kyle Field TAMU BLDG # 367 Energy Balance Plot during February 2016

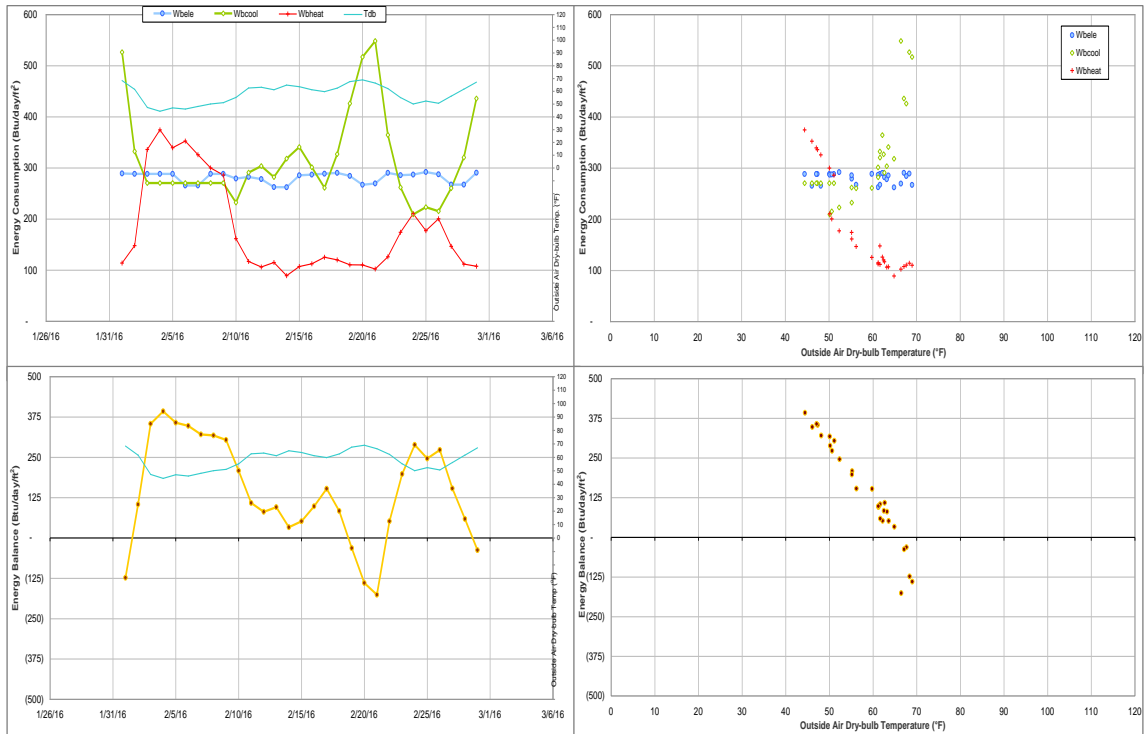


Figure V-5 Jack E. Brown Chemical Engineering Building TAMU BLDG # 386 Energy Balance Plot during February 2016

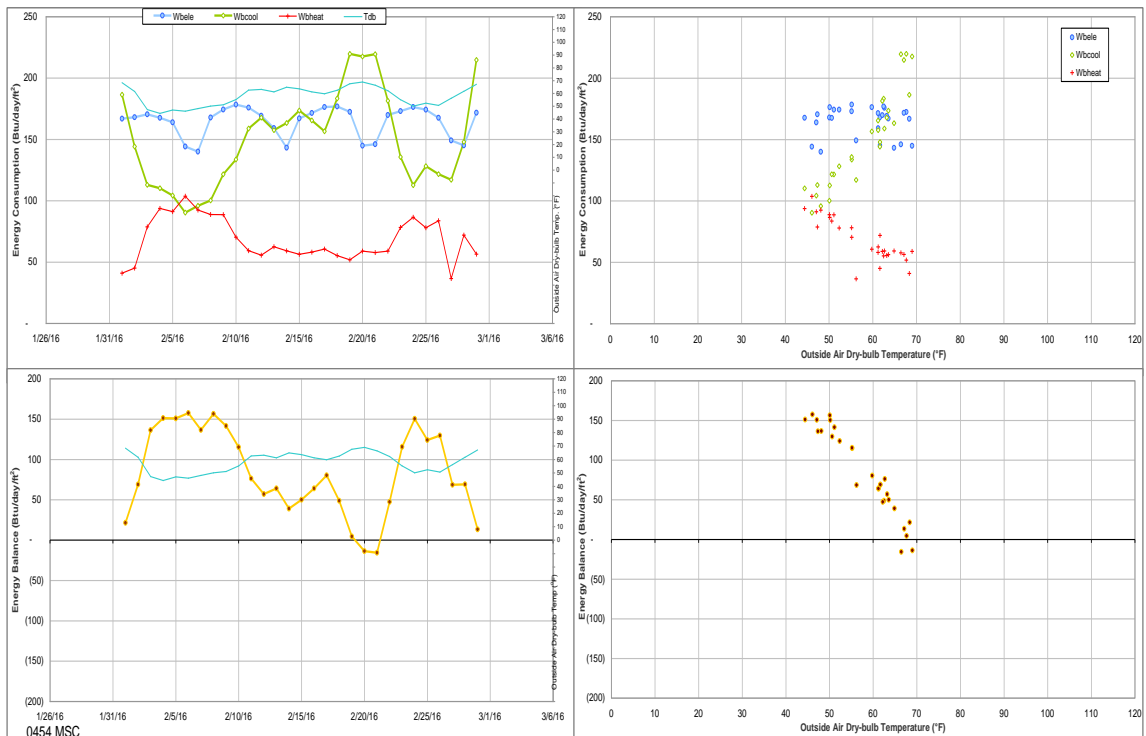


Figure V-6 MSC TAMU BLDG # 454 Energy Balance Plot during February 2016

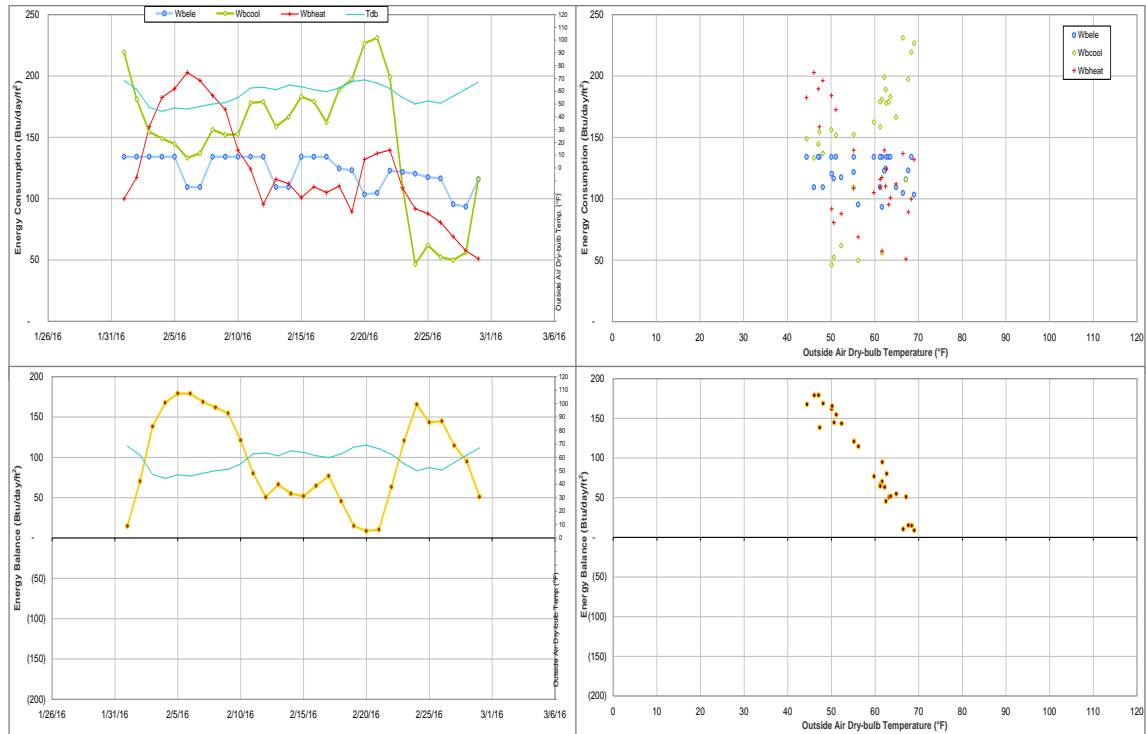


Figure V-7 Butler Hall TAMU BLDG # 465 Energy Balance Plot during February 2016

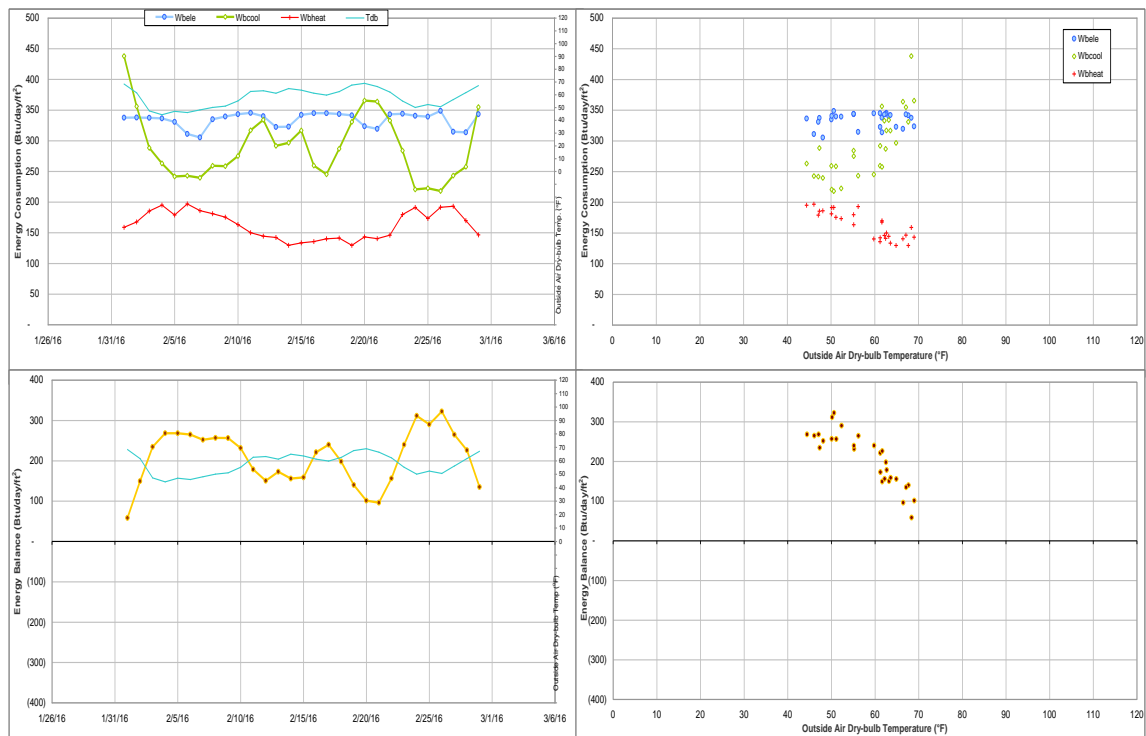


Figure V-8 Biological Sciences Building - East TAMU BLDG # 467 Energy Balance Plot during February 2016

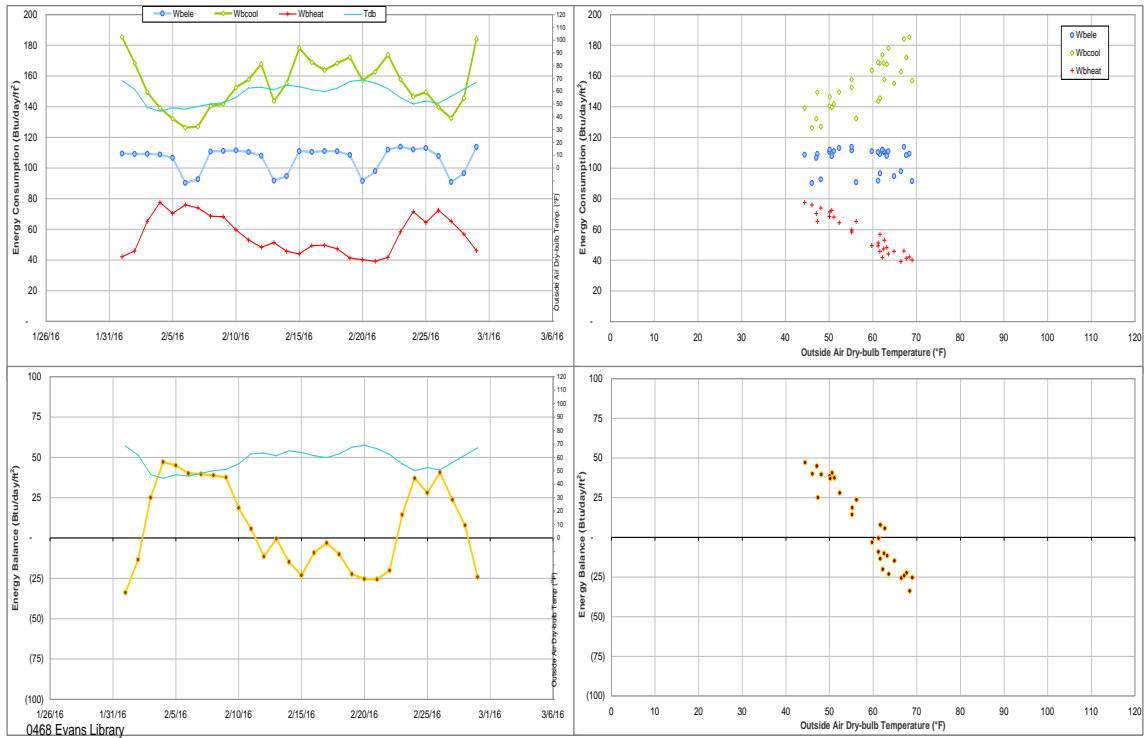


Figure V-9 Evans Library TAMU BLDG # 468 Energy Balance Plot during February 2016

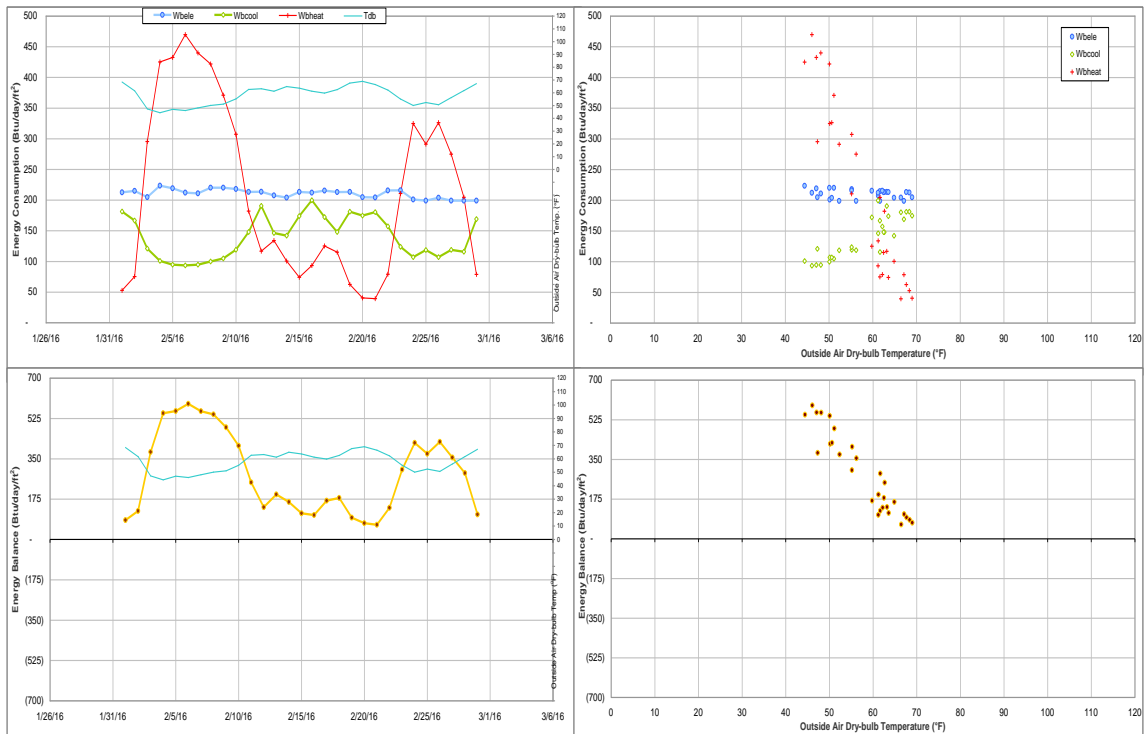


Figure V-10 Central Campus Parking Garage TAMU BLDG # 469 Energy Balance Plot during February 2016

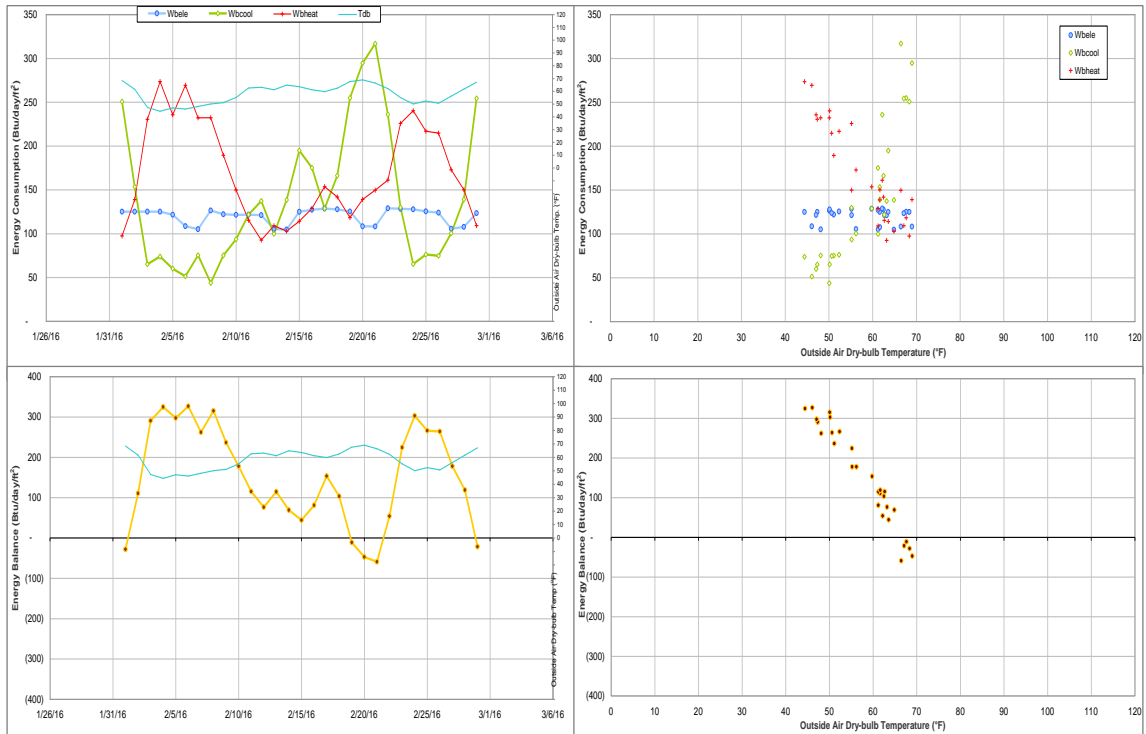


Figure V-11 Animal Industries TAMU BLDG # 472 Energy Balance Plot during February 2016

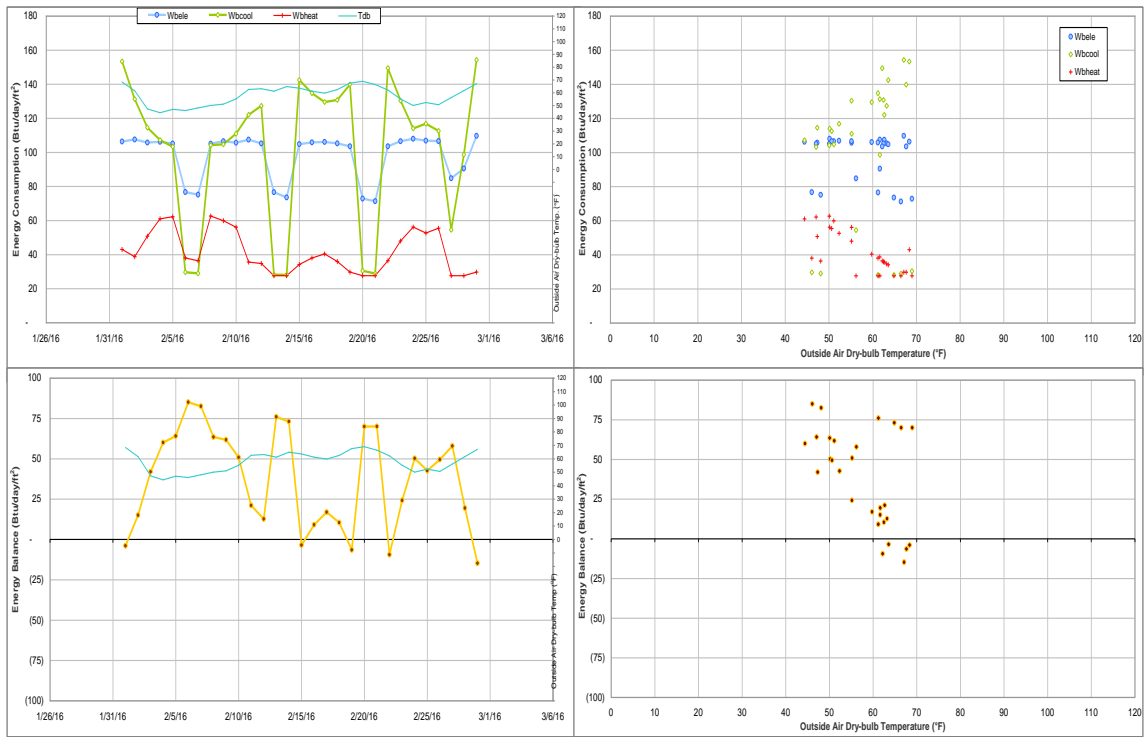


Figure V-12 Bolton Hall TAMU BLDG # 480 Energy Balance Plot during February 2016

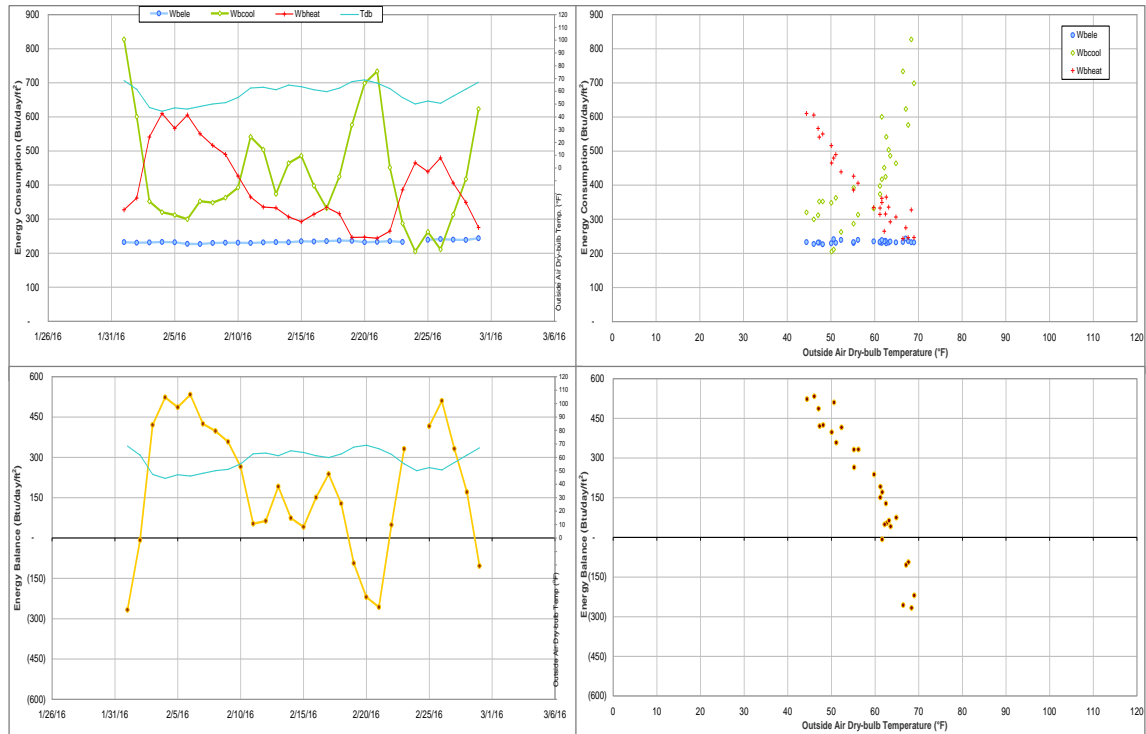


Figure V-13 Chemistry Building TAMU BLDG # 484 Energy Balance Plot during February 2016

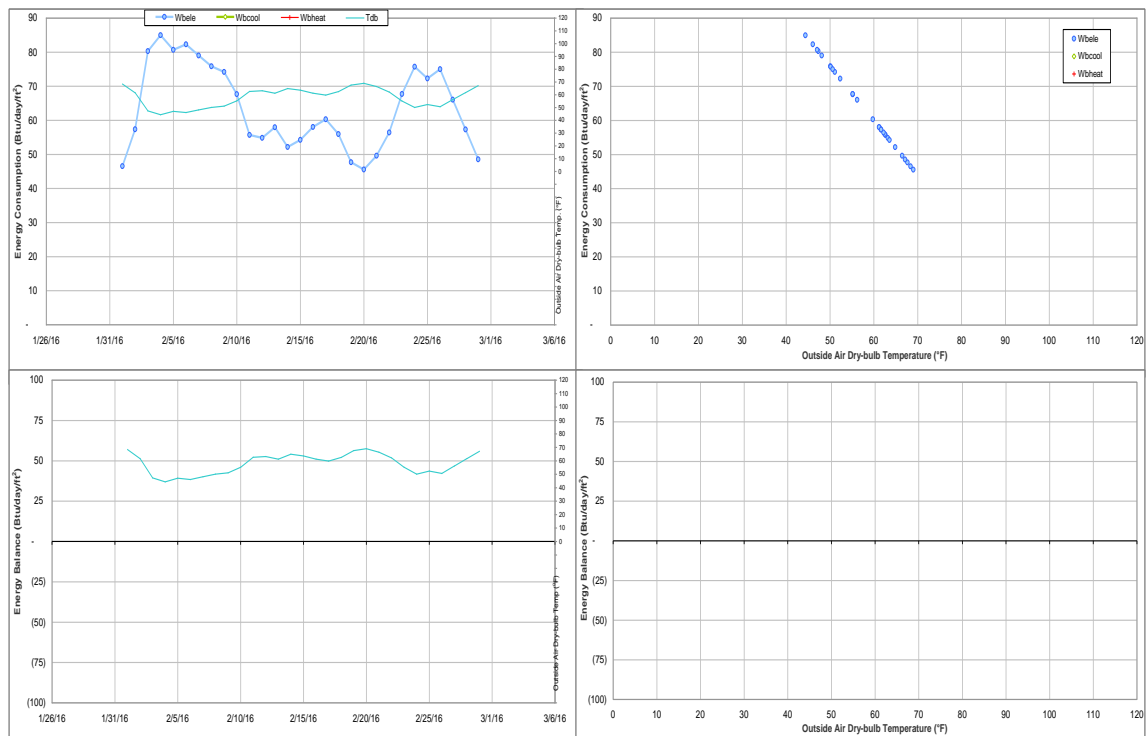


Figure V-14 Concrete Materials Laboratory TAMU BLDG # 501 Energy Balance Plot during February 2016

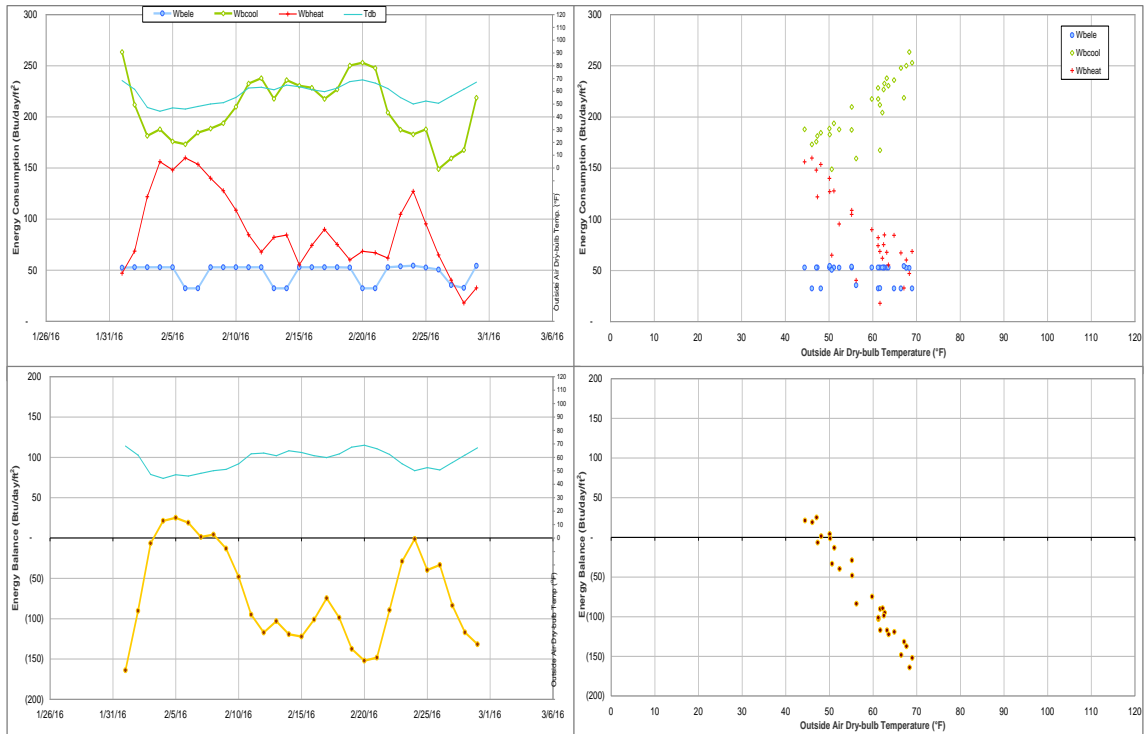


Figure V-15 Nagle Hall TAMU BLDG # 506 Energy Balance Plot during February 2016

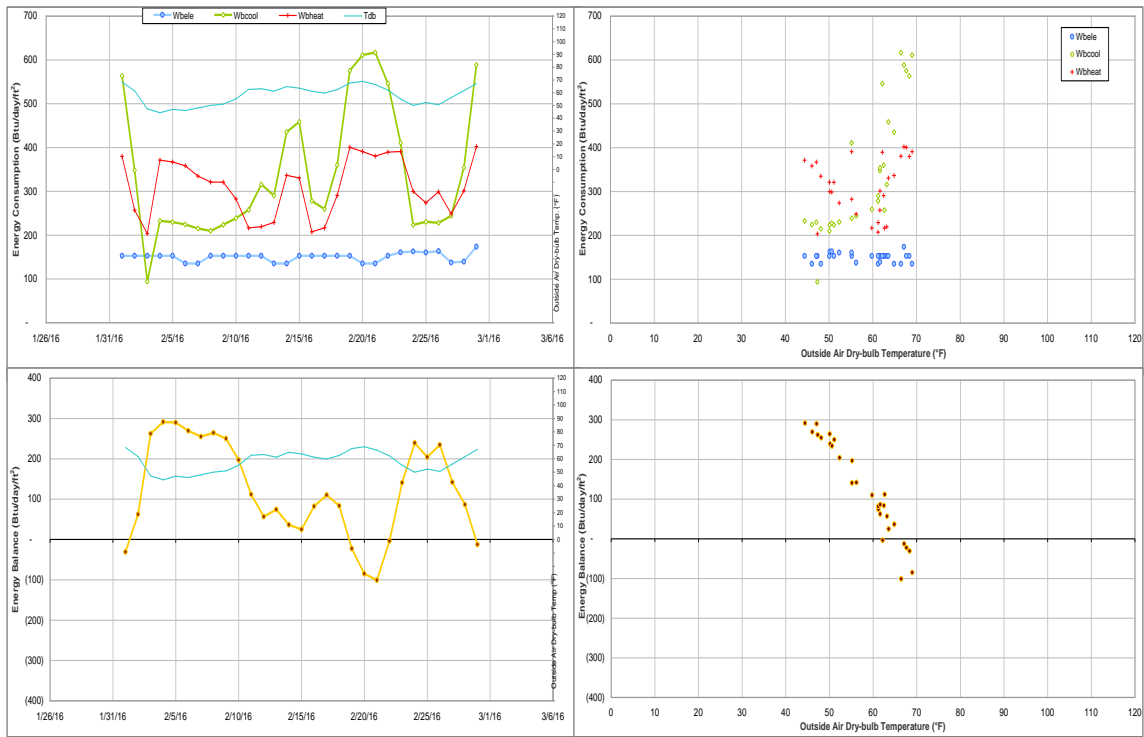


Figure V-16 Doherty Building TAMU BLDG # 513 Energy Balance Plot during February 2016

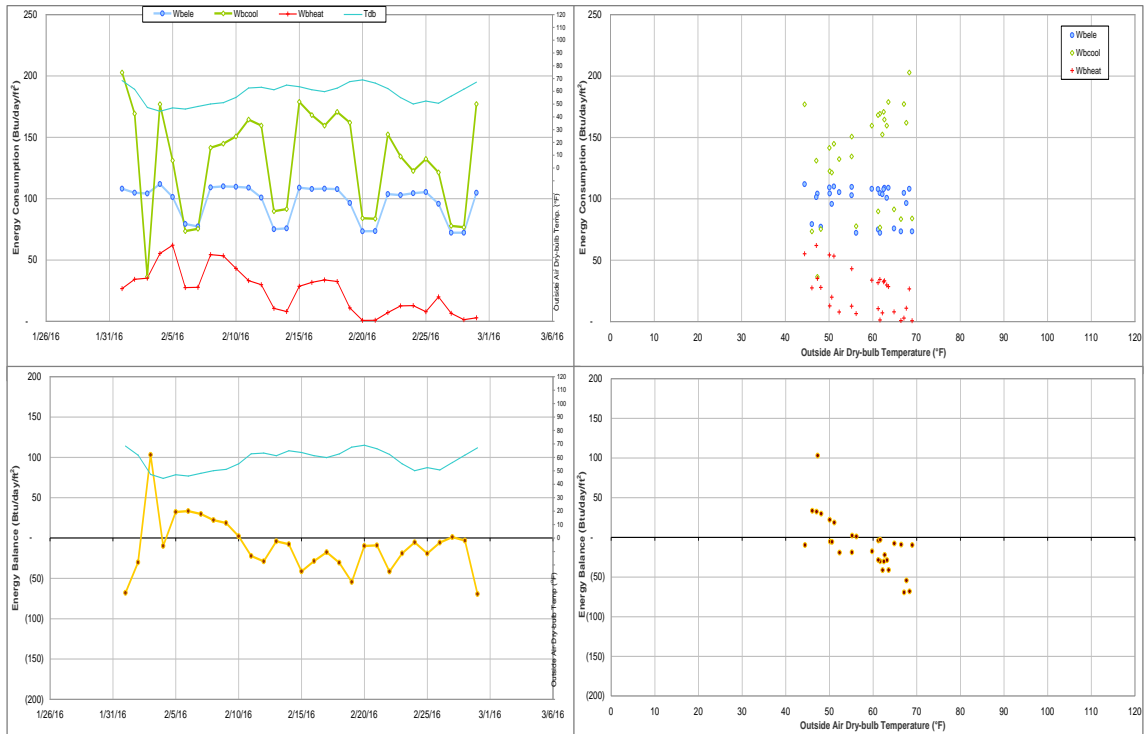


Figure V-17 Blocker building TAMU BLDG # 524 Energy Balance Plot during February 2016

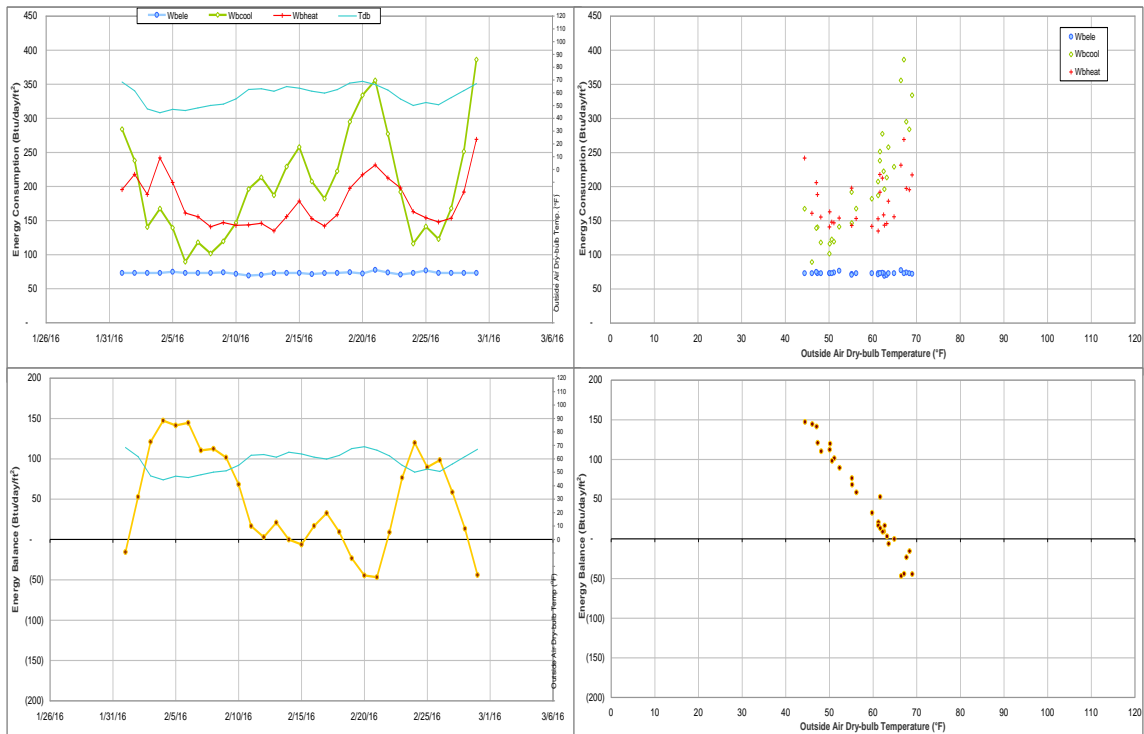


Figure V-18 Haas Residence Hall TAMU BLDG # 549 Energy Balance Plot during February 2016

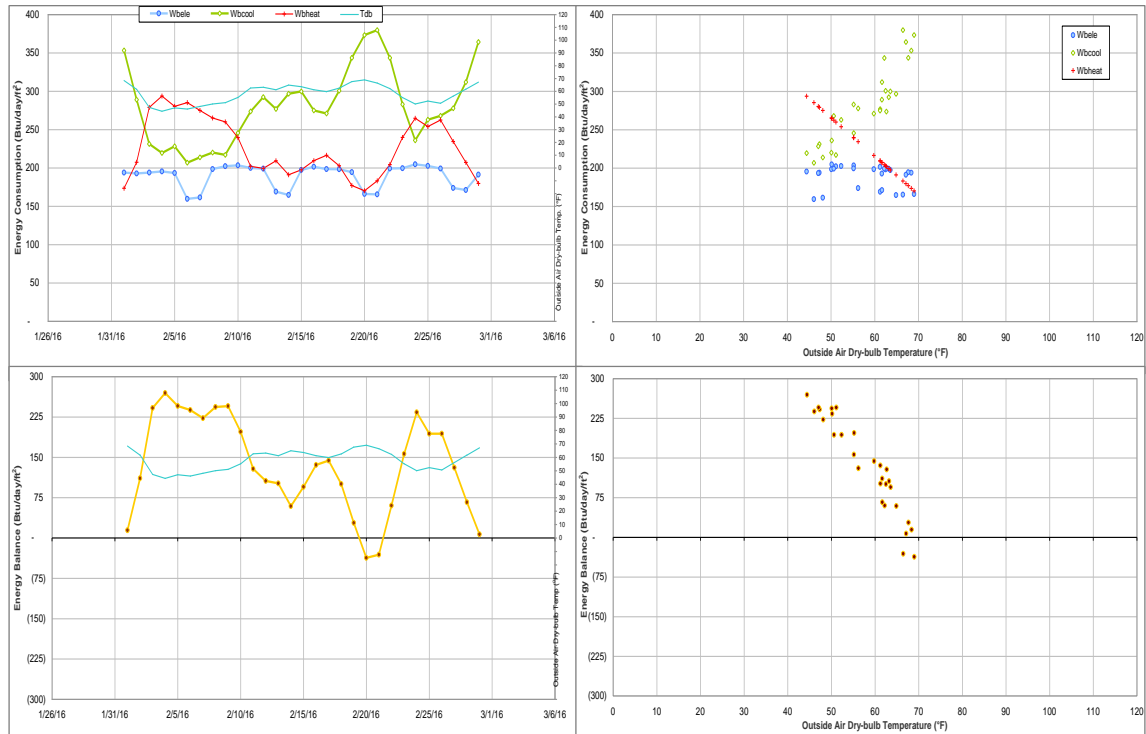


Figure V-19 Veterinary Medicine Administration TAMU BLDG # 1026 Energy Balance Plot during February 2016

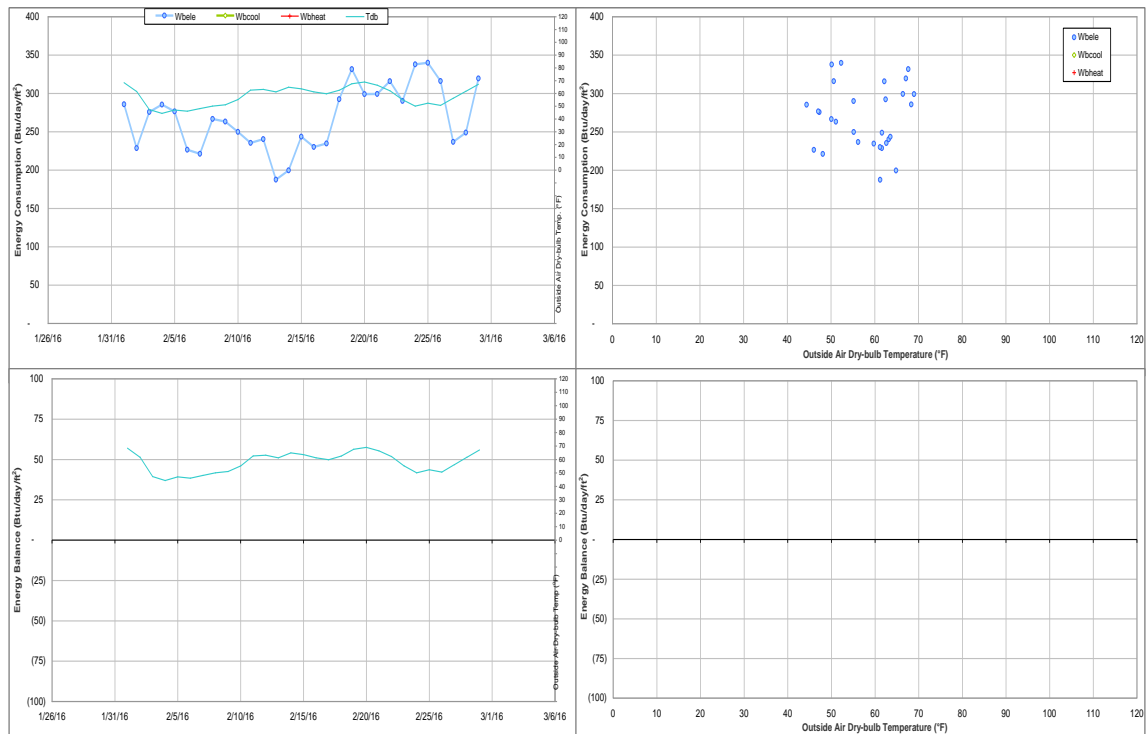


Figure V-20 Forest Science Laboratory Building TAMU BLDG # 1042 Energy Balance Plot during February 2016

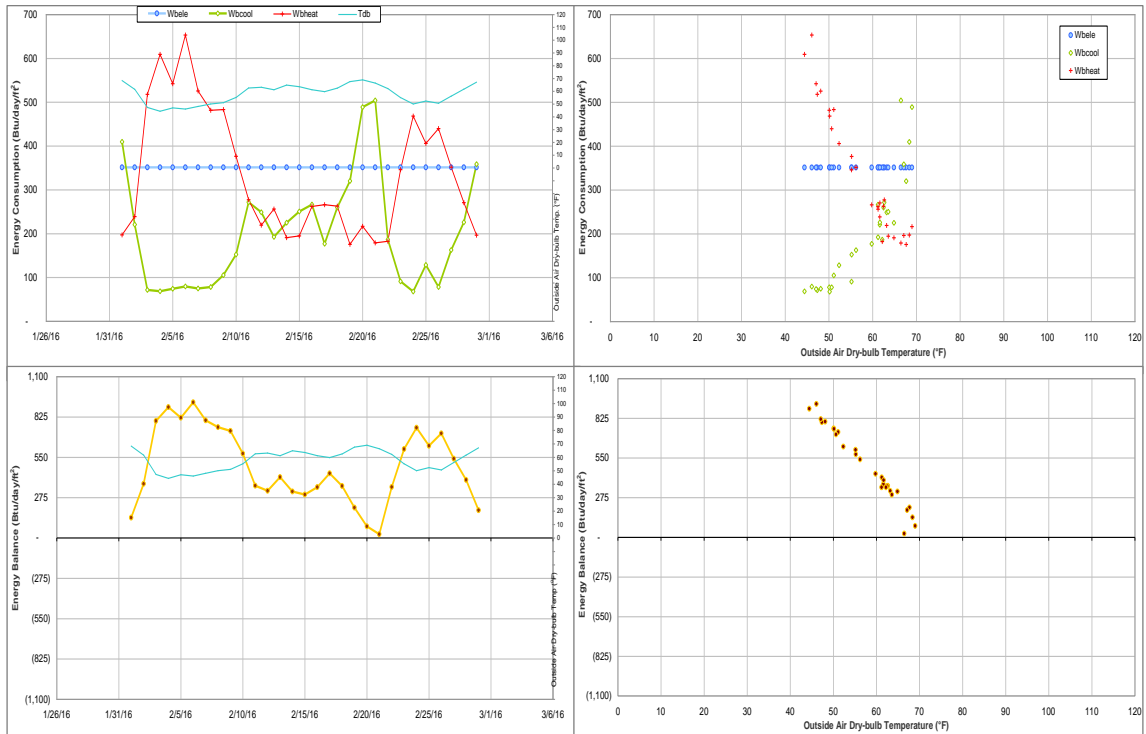


Figure V-21 Veterinary Anatomic Pathology TAMU BLDG # 1184 Energy Balance Plot during February 2016

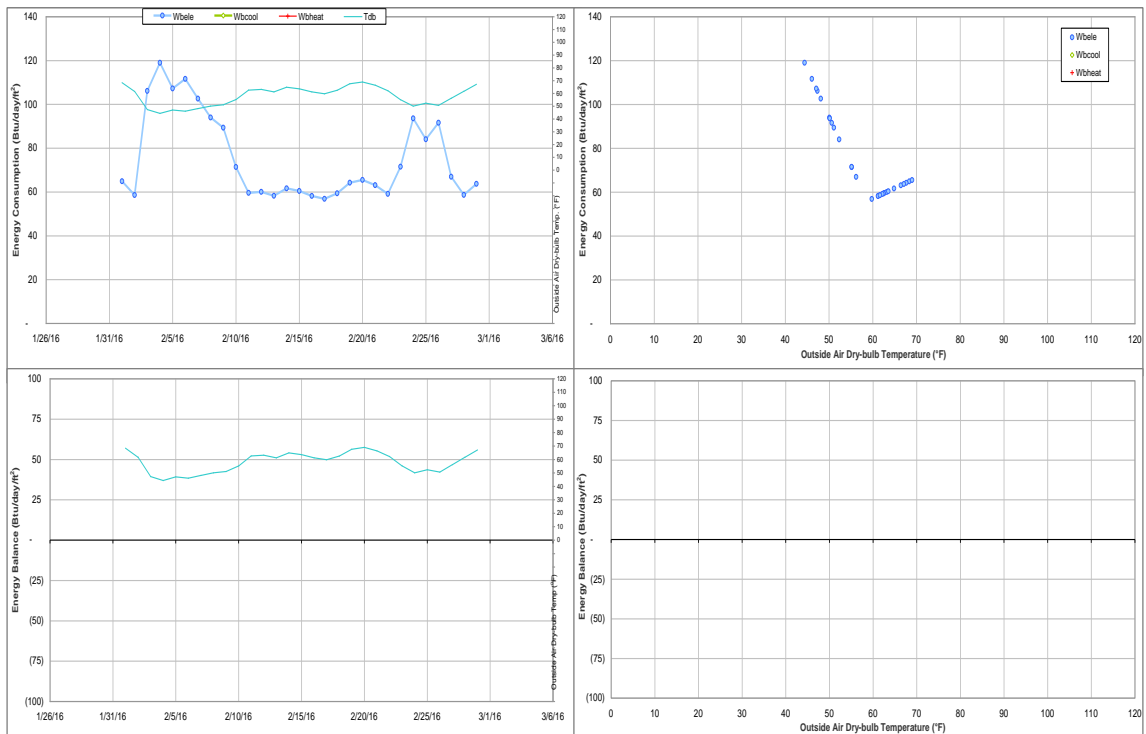


Figure V-22 University Apartments - The Gardens F TAMU BLDG # 1454 Energy Balance Plot during February 2016

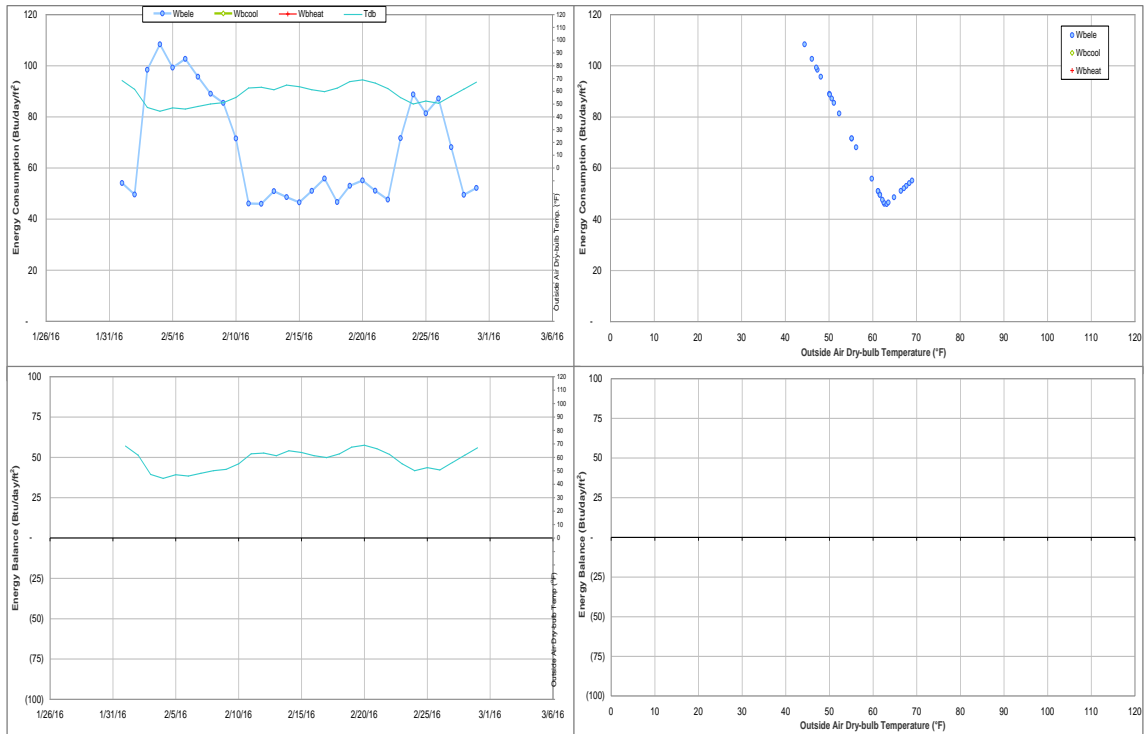


Figure V-23 University Apartments - The Gardens G TAMU BLDG # 1455 Energy Balance Plot during February 2016

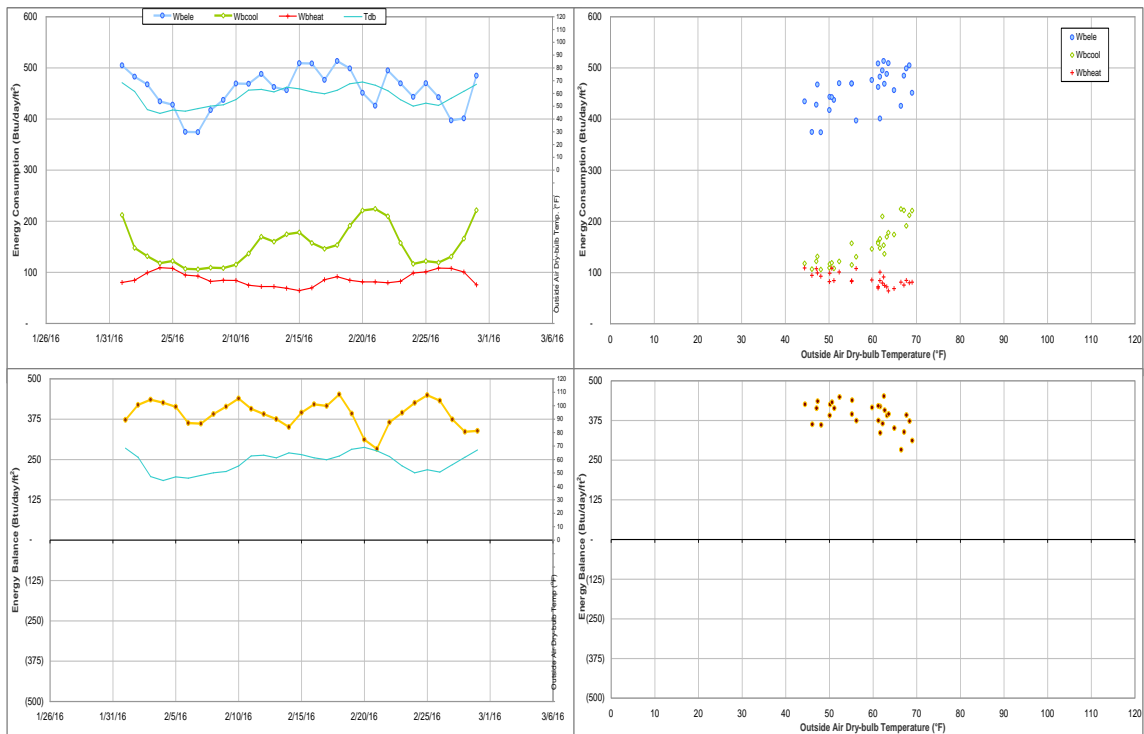


Figure V-24 Rosenthal Meat Science & Technology Center TAMU BLDG # 1505 Energy Balance Plot during February 2016

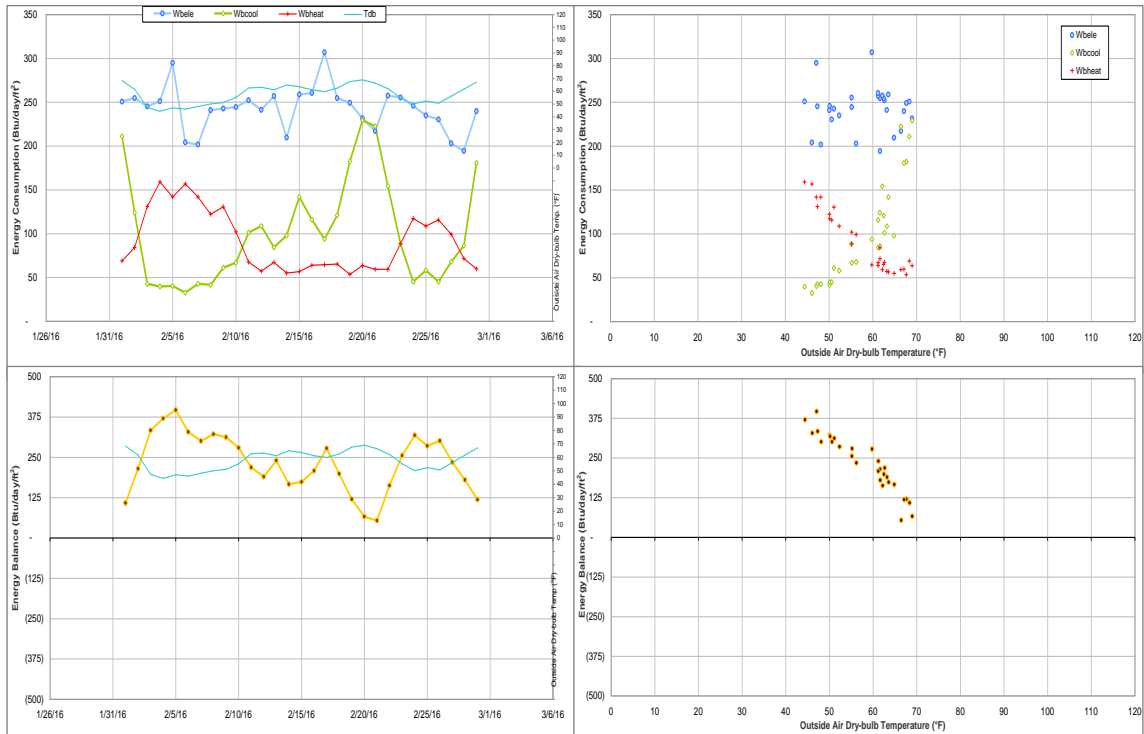


Figure V-25 TX School of Rural Public Health TAMU BLDG # 1518 Energy Balance Plot during February 2016

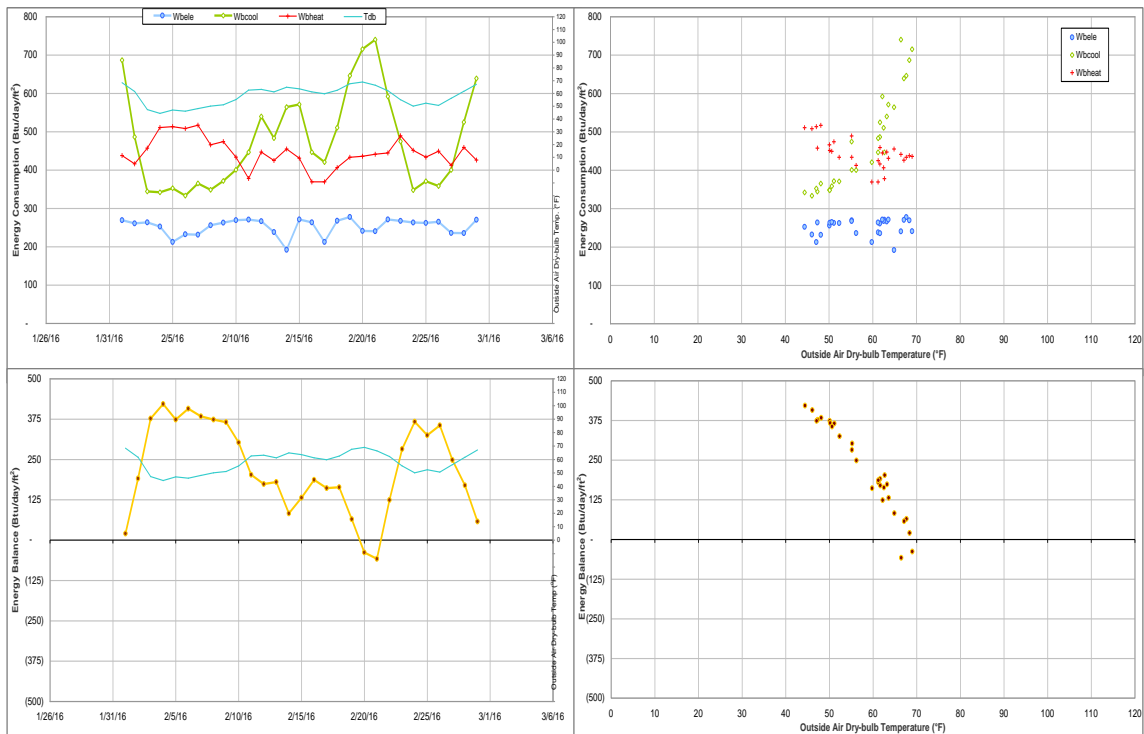


Figure V-26 Nuclear Magnetic Resonance Facility TAMU BLDG # 1525 Energy Balance Plot during February 2016

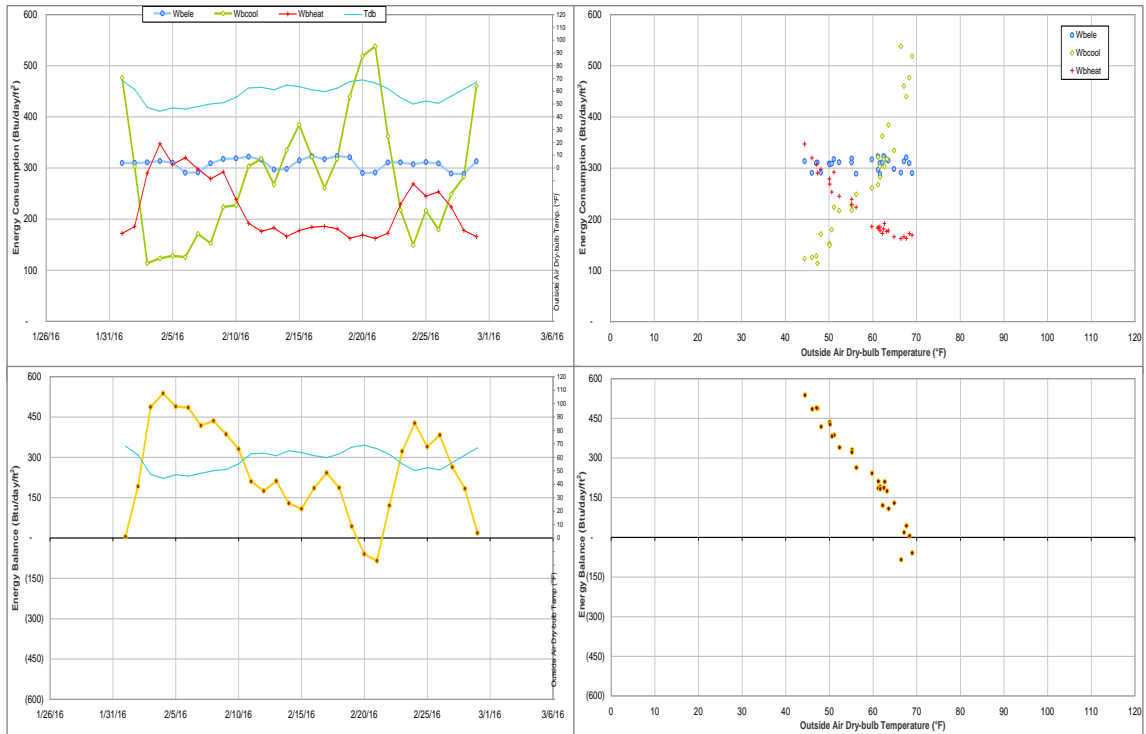


Figure V-27 Interdisciplinary Life Sciences Building TAMU BLDG # 1530 Energy Balance Plot during February 2016

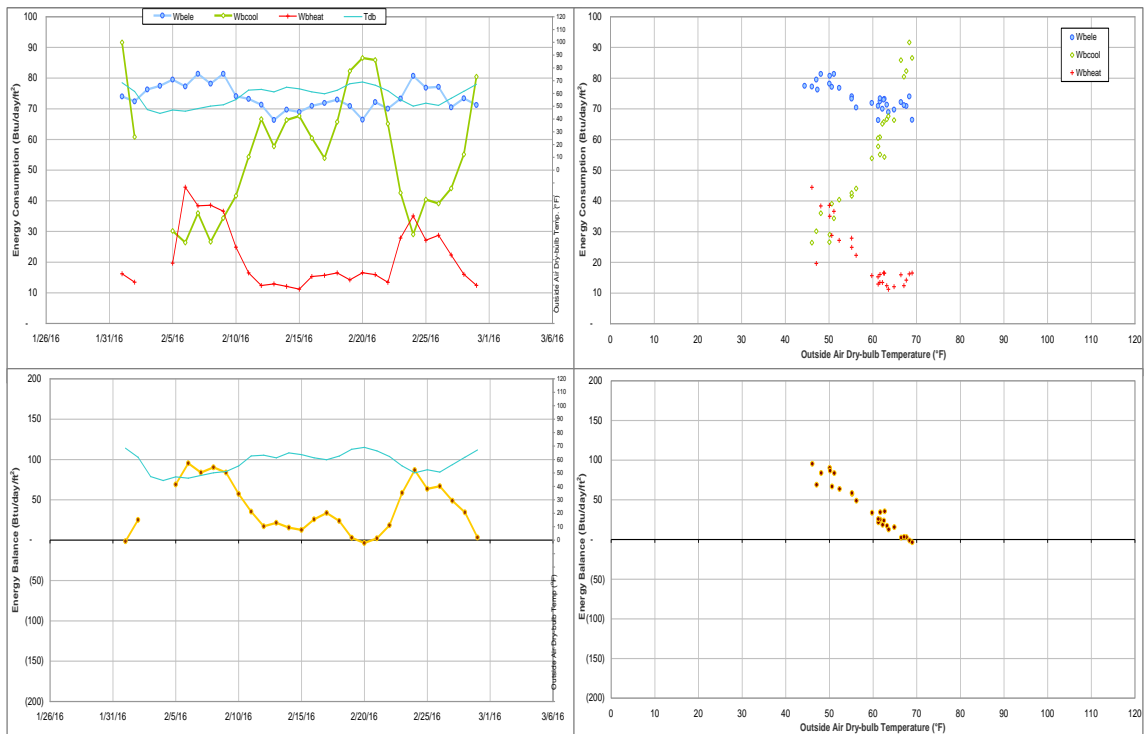


Figure V-28 White Creek Apartment 1 TAMU BLDG # 1590 Energy Balance Plot during February 2016

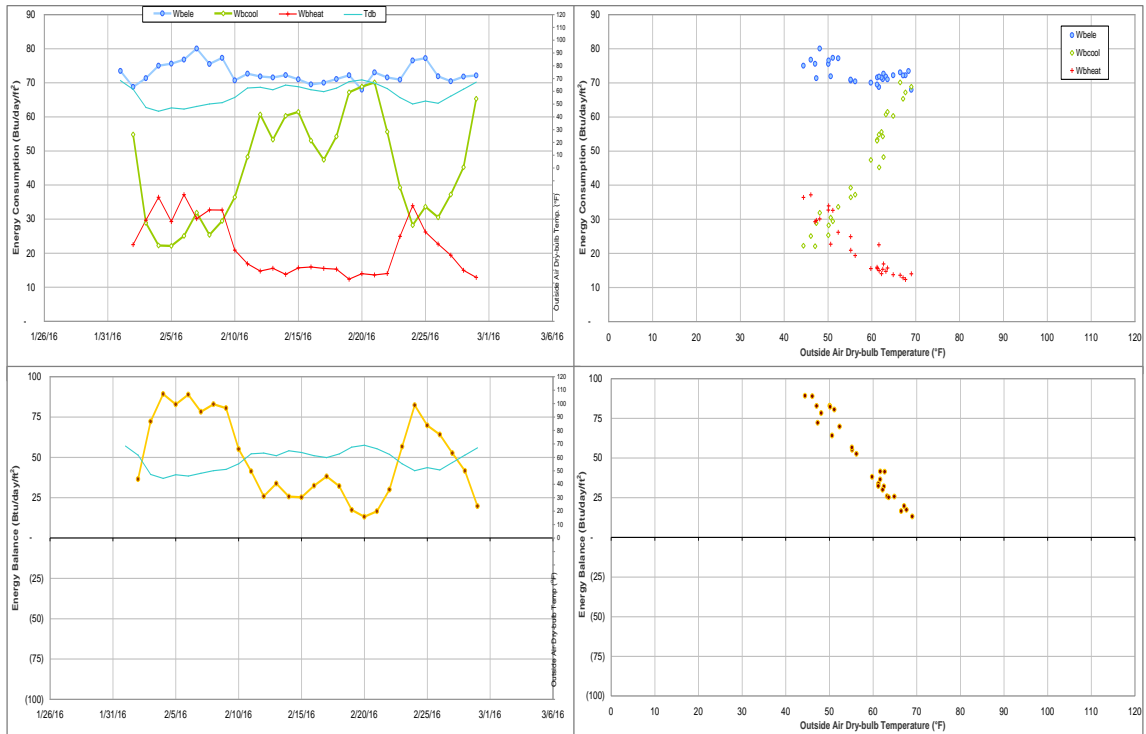


Figure V-29 White Creek Apartment 2 TAMU BLDG # 1591 Energy Balance Plot during February 2016

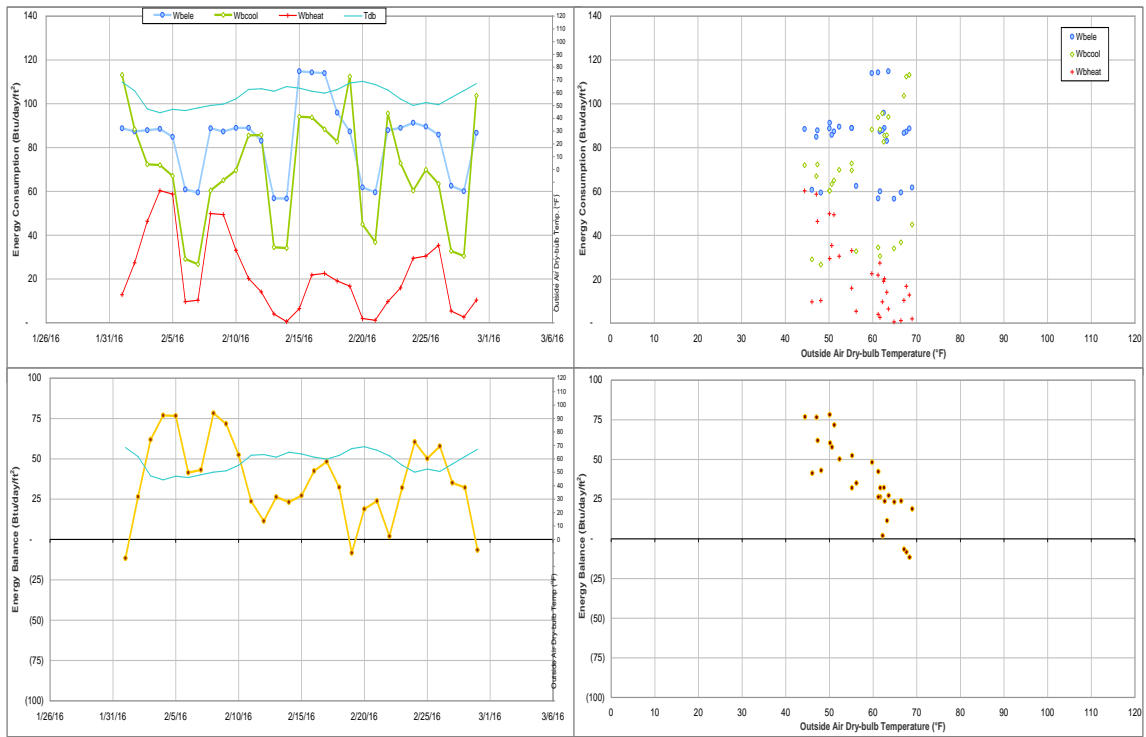


Figure V-30 Allen Building TAMU BLDG # 1607 Energy Balance Plot during February 2016

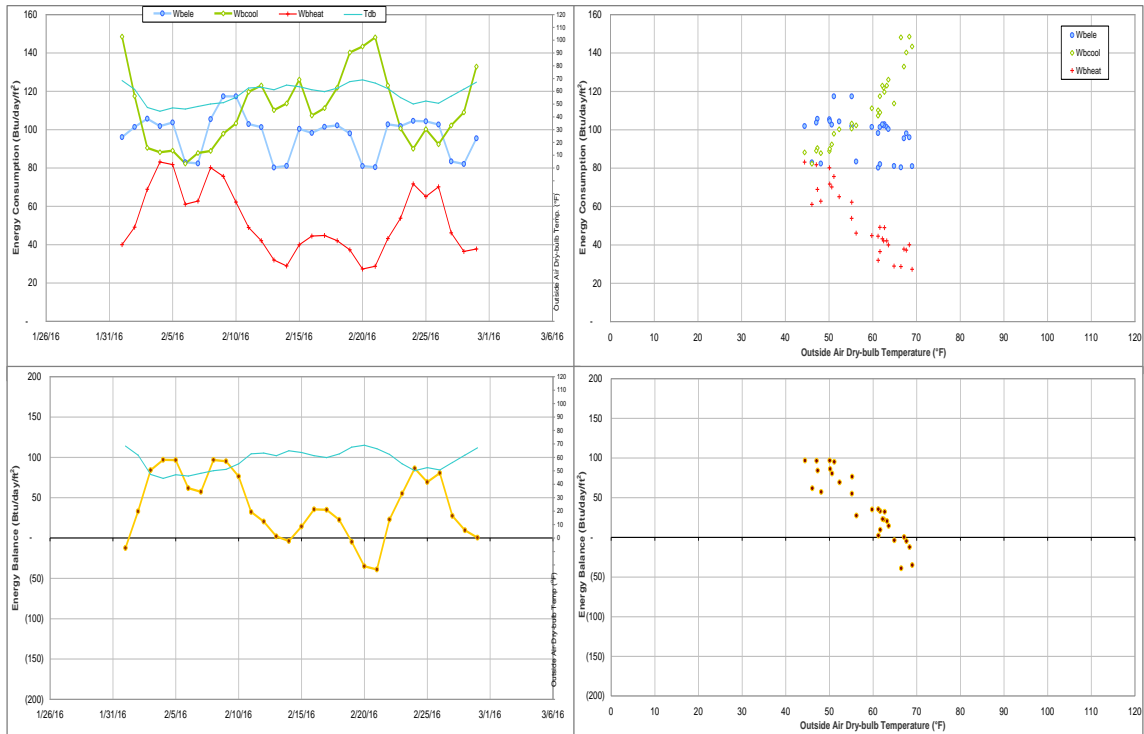


Figure V-31 TTI Headquarters TAMU BLDG # 1609 Energy Balance Plot during February 2016

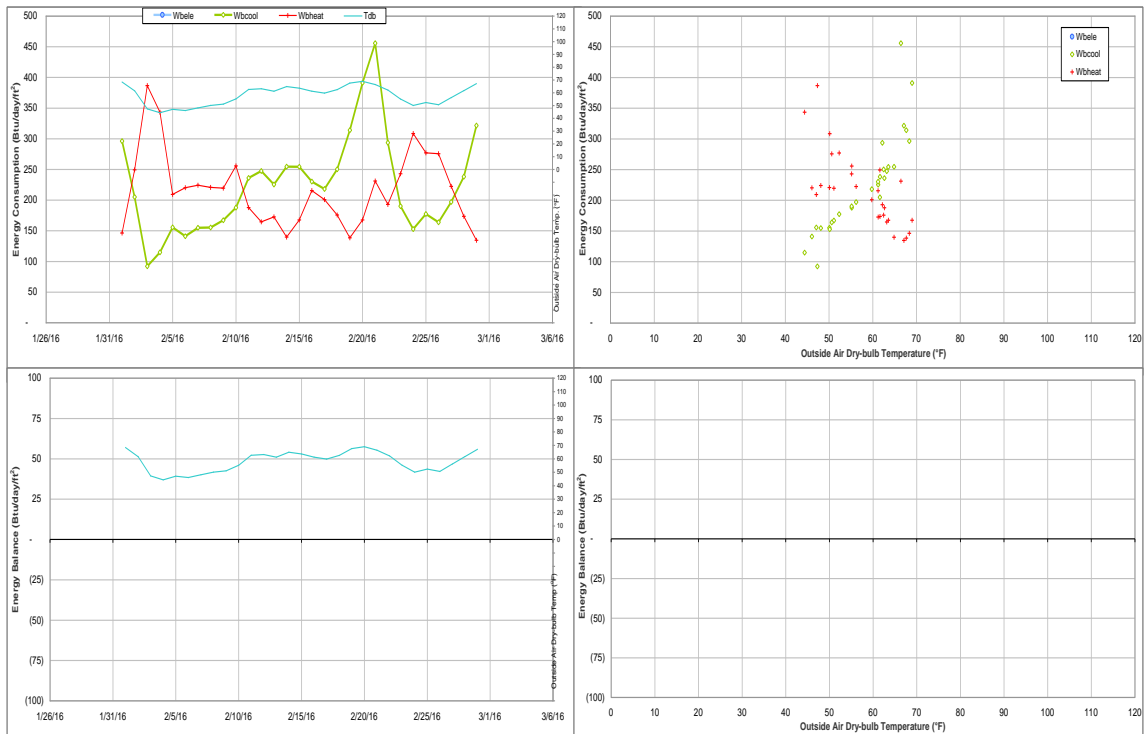


Figure V-32 Multi-Species Research Building TAMU BLDG # 1911 Energy Balance Plot during February 2016

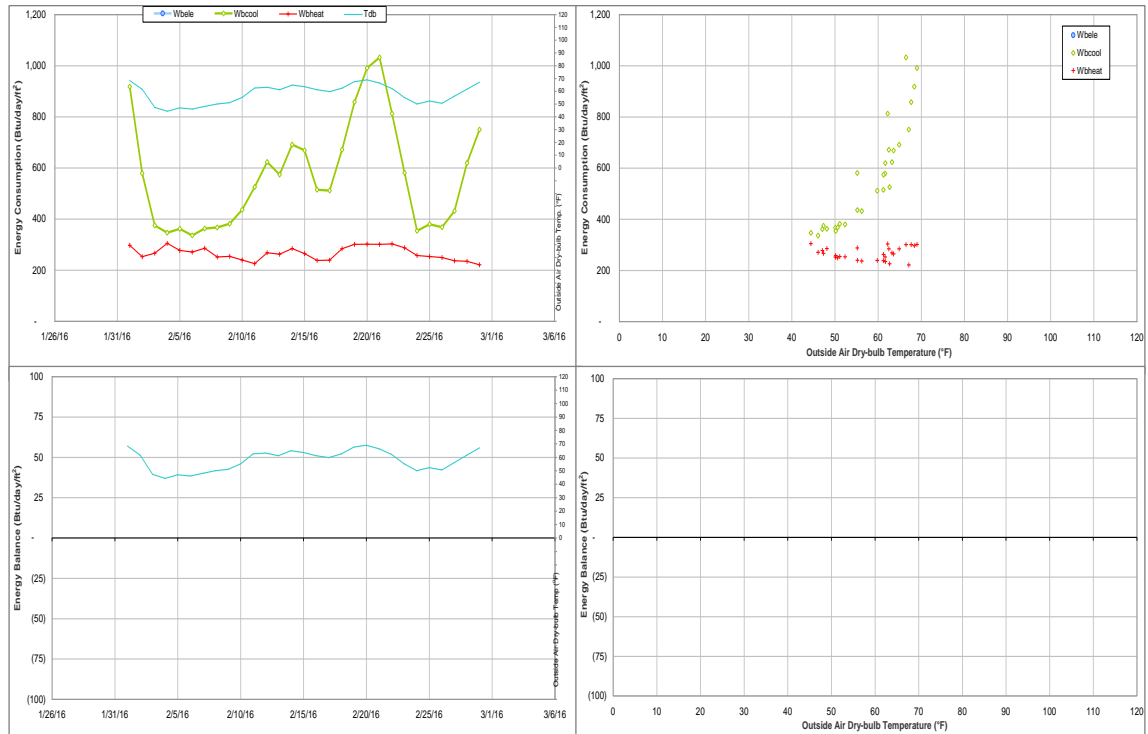


Figure V-33 NCTM Manufacturing Building TAMU BLDG # 10226 Energy Balance Plot during February 2016

VI. Appendix

ENERGY ANALYSIS GROUP



ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

Project: TAMU: Energy Analysis*

Report: Energy Consumption Data Quality Assurance/Quality Control
Assessment Report for the Month of February 2016

Prepared for:

Utility & Energy Services
Division of Administration
Texas A&M University

Authors: Xiaoli Li, Yifu Sun, Kimberly Jones
Dr. Juan-Carlos Baltazar, and Dr. David Claridge

Date: March 2016

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